



Mineral Resource Inventory Bureau of Land Management, Carson City District, Nevada

Appendix A Mines, Prospects, and Occurrences

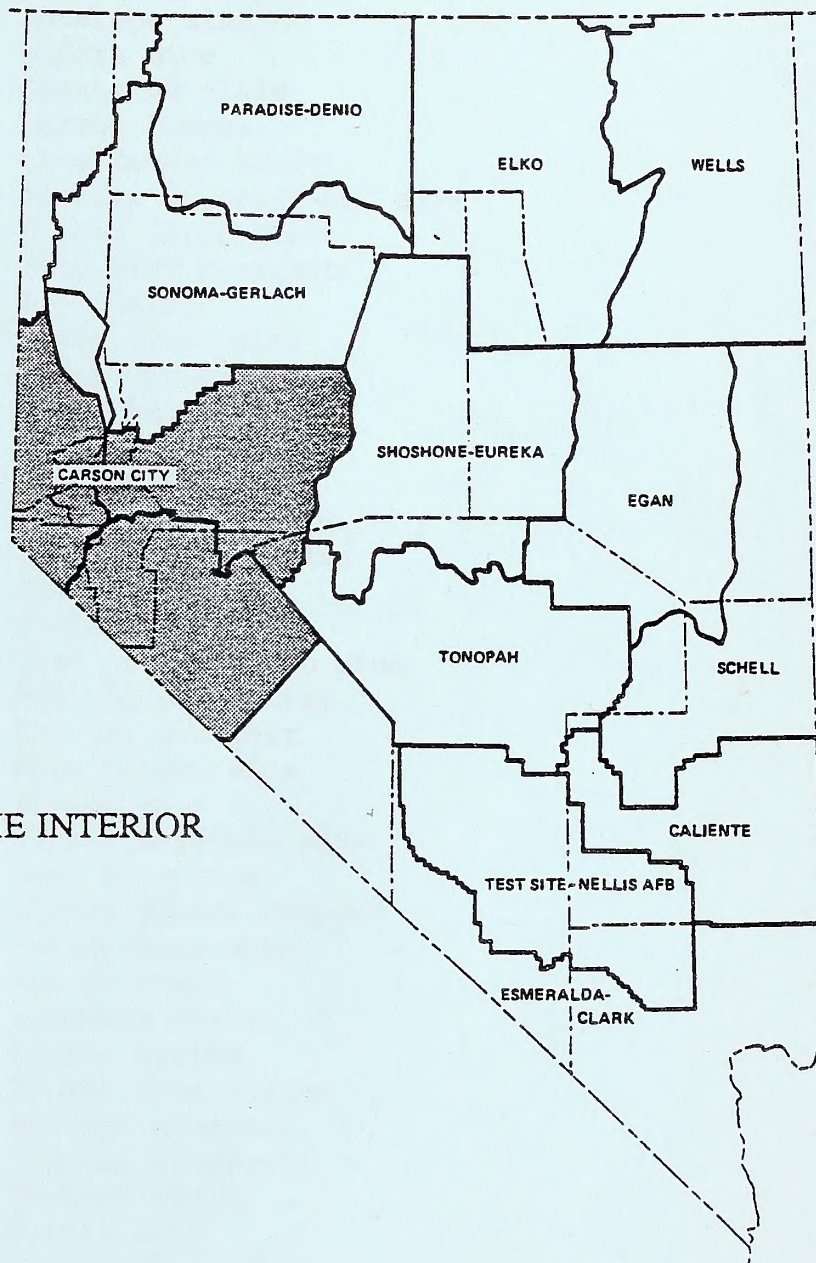
pt. 1

Prepared by:

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Prepared for:

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Carson City Office
Carson City, Nevada



Under Cooperative Agreement 14-08-0001-A-0586
with the
U.S. GEOLOGICAL SURVEY

NEVADA BUREAU OF MINES AND GEOLOGY
UNIVERSITY OF NEVADA, RENO
January 1990

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Allen Hot Springs area	Allen Springs shaft
Alpine	Drill pipe prospect
	Cold Springs prospect
	Unnamed prospect 1
	Windlass mine
Aurora	Antelope mine
	Aurora mine
	Chesco #5 claim
	Eureka Tunnel
	Live Yankee shaft
	Section 28 cross-cut adit
	Siskon Corp. shaft
Bell	Blue Bird prospect
	Bud claims
	Cedar Chest mine
	Cedar claims
	Cedar Summit mine
	Costa mine
	Cute Maid mine
	OMCO mine
	Siebert East claims
	Simon mine
	Strike claims
	West of the Simon mine
Bell Mountain	Bell Mountain mine
	Cye Cox prospect
Bovard	Blue Sphinx mine
	Bovard mine
	Copper Mountain mine
	Last Hope mine
	Little Tinker claims
	Nevada Rand mine
	Sap #1 claim
	Sundance claims
	Tinker claims
	Tinker Pine claims
	Unnamed prospect
	Unnamed prospects
	Unnamed shaft
Broken Hills	Baxter mine
	Broken Hills mine
	Little Fluorite prospect
	Silver Trailer group
	Spardome mine
	Unnamed shaft 1
	Unnamed shaft 2
Bruner	Bruner mine
	Duluth mine
	Paymaster mine
	Penelas mine

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Bruner	Unnamed Shaft No. 1
Buckley	Boo claims
	Buckley mine
	Centipede mine
	Gravity barite mine
	Malapais claims
	Mina Mae mine
	Prospect A1
	Prospect A11
	Prospect A12
	Prospect A13
	Prospect A14
	Prospect A15
	Prospect A2
	Prospect A20
	Prospect A3
	Prospect A4
	Prospect A7
	Prospect A8
	Red Granite mine
	Silver Bell mine
	Unnamed adits and shaft
Buckskin	Aqua claim
	B.C. claims
	Bar claims
	Blue Danube mine
	Minnesota mine
	Section 11 shafts and prospects
	Section 12 shafts and prospects
	Section 8 inclines
	Unnamed adit
Candelaria	Blue Star #2 claim
	Giroux mine
	Kelly and Clark mine
	Noquez #2 claim
	Noquez (Columbus) mine
	Prospect pit
	Section 16 prospects
	Silver Star claim (?)
Carson City	North Carson mine
	Unnamed prospect pits
Castle Peak	All-Lite aggregate quarry
	Castle Peak mine
	Road cut prospect
	Santa Fe prospect
	Washington Hill mine
	zz unknown
Chalk Mountain	Berg claims
	Berg claims 2
	Berg claims 3

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Chalk Mountain	Chalk Mountain mines Chalk Mountain(?) Sample site 3882 Sample site 3885 Sample site 4314 Sol's Grubstake West Side mine West Side mine (east)
Churchill	Ruth mine Section 10 gold prospect Section 15 tungsten mine Section 22 silver-copper prospect Section 22 tungsten prospect Section 9 tungsten prospect
Clark-Derby area	Sample site 4112 Taylor-Branch prospect zz unknown
Como	Como-Eureka mine Hercules mine Hulley Logan mine Pony Meadows mine Rapidan mine Section 25 adit Stone Cabin claims
Comstock	Belmont and Uncle Sam shaft Florida shaft Lady Bryan mine Oest mine Phoenix mine Prospect shaft Section 16 shafts Section 28 shafts Sections 27-28 shaft and adit
Corral Canyon	Corral Canyon titanium prospect Last Chance claims (?)
Dead Camel Mountains area	Camp Gregory mine Wildhorse claims
Delaware	Ajax Nevada mine Alex Eske mine Bessemer mine Bidwell mine Bunker Hill mine Dixon mine Edison Nevada mine Mean Green Money Machine claims NE Section 22 shafts and adit Nez Perce claims SE Section 22 shafts and adits Section 28 shaft Section 31 shaft

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MINING DISTRICT	PROPERTY NAME
Delaware	Section 31 shaft and adit Section 34 Tyee and South Mac #1 claims United Mining Co. mine Unnamed prospect Unnamed shaft Utopian mine Vic #1 claim
Desert Mountains area	Section 13 adits Section 33 prospects Smelter prospects White Horse diatomite prospect
Dixie Valley	Dixie Comstock mine South Dixie Comstock shaft
Eagleville	CoCo claim Eagle Hill prospect Eagleville mine Harry Mann mine (?)
Eastgate	Buffalo Hump mine County Line shafts Double Eagle mine Eastgate mine Gold Trail group Last Chance and Chogiak claims Rob claims
Eastside area	Blue Gem No. 1 claims Eastside mine Eastside prospects Intergal #1 prospect Noquez mine
Eldorado	Spring deposit
Fairview	Ajax vein Centurion prospect Dromedary Hump mine East Nevada Crown mine Grand Central mine Jelinek mine Jelinek mine (west) Jet claims Midday claim Mizpah mine Nevada Crown mine Nevada Fairview mine Nevada Florence mine Nevada Hills extension shaft Nevada Hills mine Pyramid shaft(?) Rex claims Sample site 3808 Sample site 3821

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Fairview	Sample site 3826
	Sample site 3829
	Sample site 3830
	Sample site 3831
	Sample site 3832
	Sample site 3833
	Sample site 3834
	Sample site 3835
	Sample site 3836
	Sample site 3837
	Sample site 3839
	Sample site 3840
	Sample site 3845
	Sample site 3846
	Sample site 3847
	Sample site 3849
	Sample site 3850
	Sample site 4315
	Sample site 4317
	Slate mine
	Tomboy prospect(?)
Fitting	American Gold claims
	Canyon claims
	CDO #2 claim
	Hawaiian group
	Iron Crown prospect
	Los Amigos mine
	Momi Mining Company mine
	Montreal mine
	Nevada Crown claims
	New Strike claims
	P.M. claims
	Prospect shaft
	Red Hill claims
	Rusty Canyon claims
	Section 33 adits and shafts
	Shallow prospects and shaft
	Silver Chief mines
	Silver Chief prospects
	Silver King mine
	Silver Queen mine
	Siskon Corp. claims
	Unnamed adit
	Unnamed adit and prospect
	Unnamed inclines
	Unnamed prospect pits
	Unnamed prospects
	Unnamed shaft
	Unnamed shafts and adits.
	Wimpy #5 claim

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Freds Mountain area	Copper Gulch No. 2 claim Copper Ridge No. 1 claim FF claims Finn shaft Millers Titanium claims Nash Copper Section 29 adit Section 35 prospect Snow Cloud claim Tasha-Me prospect Till Then claim zz unknown
Gabbs Valley area	B. H. claims Ball Bearing mine Black Hills prospect Goose Claim 386 Lithia mine Lucky Day # 197 shaft Poinsettia mine Rex No. 4 claim Rex No. 6 claim Rita mine
Galena	Sample site 4067 Galena Hill mine Rocky Hill mines Sample site 4321 Union mine
Gardnerville	Bentley prospects Danite mine Gardnerville mine Gold prospect 1 Gold prospect 2 Gold prospect 3 Gold prospect 4 Gold prospect 5 Monarch mine Preachers mine Ruby Hill mine Section 1/2 prospect Section 2 prospect Suprise mine Tungsten Hills mine Veta Grande mine
Garfield	Bataan mine Bataan prospects Garfield mine Gold Coin and New Deal claims Lucky Strike mine Mable mine Mindora mine

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Garfield	Rock Cabin mine
	Section 17 prospects
Gold Basin	GB Fraction shaft
	Gold Basin adit
	Gold Bug mine
	Shamrock mine
Holy Cross	Bimetal group
	Black Butte mine
	CH claim #33
	CH claim #35
	CH claim #42
	CH claims #9 and #11
	Cinnabar Hill group
	Gee shaft
	Sand Mountain claim #1
	Water Shaft mine
Huntoon Valley area	Hardrock Mine
	Hontone Mine
	Moon Glow Prospect
I.X.L.	Bill Towe prospect
	Cox Canyon prospect
	Revenue mine
	Section 20 shaft
	Silver Hill Claims
Jumbo	Boss Jumbo mine
	Empire mine
	Pandora mine
King	King mine
La Plata	Eleven Mile adit
	La Plata fluorite prospect
	La Plata townsite
	One Mile claims
	Sample site 3930
	Sample site 3932
	Sample site 3933
	Sample site 3934
	Sample site 3939
	Sample site 3940
	Sample site 3941
	Sample site 3942
	Sample site 3943
	Sample site 3944
	Sample site 3945
	Sample site 3946
	Sample site 3947
	Sample site 3948
	Sample site 3949
	Sample site 3950
Leonard	Scheelite Extension mine
	Thorne property

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Lodi	Arentz shaft Barite prospect Desert group Exchequer shaft Hasbrouck mine Kernick shaft Poor Boy claims Silver Star claims Tripod prospect Unnamed shaft 1 Unnamed shaft 2 Unnamed shaft 3 West Mines Corp. property
Lucky Boy	Jaime's Ridge deposit Jim Canyon prospect Lucky Boy mine Patrick claims Section 12 gold prospects Section 12 shaft Section 13 shaft and prospects Section 13 shafts and adits Section 21 adit and pits Section 28 open-pit Section 32 adits Section 34 quartz quarry
Marietta	4-D claims Badger mine Iron prospect 1 Marietta mines Moho mine Silver Gulch mine
Masonic	Coca Mines claims Gold Fund mine Hellman gold-copper prospect Homestead Mine New gold-silver mine Section 6 adit
Mound House	Mound House mine
Mount Grant	Bar Claim #1 Bar claims adit Big Indian mine Grant Mountain gold mine Section 11 prospect Section 13 shaft and prospect Section 14 adit Section 14 inclines and adit Section 14 prospects Section 14 shafts and adits Section 18 open-cuts and pit Section 19 adit

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Mount Grant	Section 2 adits Section 2 adits and prospects Section 24 prospect shaft Section 24 shaft Section 24 shafts Section 31 adits and shaft Section 32 prospects Section 34/35 adit Section 36 prospects Section 6 adit Section 6 prospects and adit Section 7 adit Section 7 shaft and mill site SW Section 31 shaft and adit
Mount Montgomery	Buckley Mining claim Houndog claims Indian Queen Mill Site claim Moonlight-Silver Moon claims Panorama claim Section 35 shaft and adit Vol claims (north) Vol claims (south)
Mountain House	Last Dollar claim Section 17 incline and prospects Section 34 adit Section 7 adit Section 7 adits and incline Willard McDonald mine
Mountain View	Big Twenty mine Fairplay claims Hawkeye mill Mountain View mine N.L. #1 claim Northern Lights mine Ophir #9 claim Reservation Hill prospects Section 12 incline Section 12 shaft and adits Section 2 copper prospect Section 21 gold prospect Section 22/23 shaft
Olinghouse	Babe No. 1 claim Bosici Mines Buster mines Derby mine Golden Hawk claims Green Hill mine Keystone mine Lady Bug No. 11 claim Mountain Goat claim

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Olinghouse	Norris Spring No. 11 claim Norris Spring No. 7 claim Paiute No. 35 claim Rainbow claims Stud mine Sundown claim Sunriver Mining Co., Inc. Woody mine zz unknown
Pamlico	Big Deal Claim #5 Big Deal Claims 1-26 Central mines Gold Bar mine Gold Bug mine Golden Bomber mine Good Hope #2 mine Good Hope mine L. P. Claims La Panta Lowman mine Pamlico mines Pomico claims South Extension of Lazy Man mine Unnamed Prospect shaft Wamsely mine zz unknown
Peavine	Golden Fleece mine MTOLY(?) No. 1 Recall mine Red Metal mine Redelius copper prospects Reno May prospect (?) Reno Mizpah mine Section 8 shaft Updike mine zz unknown
Pilot Mountains	Belleville mine Bettles mine Coveney mine Desert Scheelite mine Drew mine Eddyville mine Good Hope mine Gunmetal mine Hasbrouck mine Hitt mine Keg mine Lakeview mine Mammoth mine Mina mine

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MINING DISTRICT	PROPERTY NAME
Pilot Mountains	Mosier mine Reward mine Tiffany Mine Warlock mine
Pyramid	Jones-Kincaid mine Perry mine Ruth mine Thunderbird claim zz unknown
Ramsey	Gooseberry mine Ramsey Comstock mine Ramsey site shaft San Juan Hill mines Section 1 shaft and adit Section 12 shafts Section 14 shaft Section 2 adit Spencer claims
Rawhide	Crazy Hill pit Hooligan Hill Murray Hill pit Regent
Red Canyon	Gold Bug mine Longfellow mine Lucky Bill mine Morgan #3 claim Premier adit Premier mine Red Canyon claims Section 10 shafts and adit Section 15 shaft and adit Section 4 adits
Red Mountain	Dayton iron deposit Iron Blossom prospect Pearl Harbor tungsten mine Section 10 prospect Section 13/24
Risue Canyon	Arrowhead extension mine Arrowhead mine Piri #3 claim Section 27 adits
Sand Pass Area	Adobe Springs prospects Double Check Deposit Rivermott Deposit Terraced Hills deposit Zenobia clay prospect 1 Zenobia clay prospect 2 Zenobia clay prospect 3 Zenobia clay prospect 4
Sand Springs	Laxon Mining Co. prospect

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Sand Springs	Red Ant mine Red Top mine Red Top Scheelite mine Sample site 3851 Sample site 3854 Sample site 3855 Sample site 3858 Sample site 3859 Sample site 3860 Sample sites 3864 and 3865 Sample sites 3866 and 3867 Shamrock claim #1 Shamrock claims #2 and #3 Standard Tungsten claims Starbrite claim Summit King mine Summit King mine (west) T.M.R. claims TES and SAS claims
Santa Fe	Atom-Lorna claims Beeler prospect Black Butte mine Black Sam group Blue Ribbon mine Buff's mine Chapman Anderson group Clay Peters mine Dunbarton mine Eagle prospect Giroux group Iron Gate group Isabell mine Jeep mine Kay mine Kope Scheelite mine Never Sweat mine Nun prospects Section 10 adit Section 10 prospect Section 15 prospect Section 27 prospect Section 31 mine workings Section 33 prospect Section 34 prospect Section 35 prospect adits Section 35 small open pit Silver Cross claims Sunrise mine Todd mine Western Metals Co. Inc.

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MINING DISTRICT	PROPERTY NAME
Santa Fe	Windup mine
Shady Run	Fondaway Canyon mine
	Nick Sullivan prospect
Silver Star	1905 mine
	Maryann mine
	New Party mine
	Red Fox claims
	Section 29 workings
	Star #10 claim
Smoke Creek Desert	Capricorn claims
	Red Rock zeolite occurrence
	Rocky Springs zeolite occurrence
	Willow Springs zeolite occurrence
Stateline Peak	Antelope mine
	Red Rock Estates gravel pit
	zz unknown
Steamboat Springs	Steamboat Springs mine
	Wheeler prospect
Table Mountain	Lovelock mine
	Nickel mine
	Treasure Box mine
Talapoosa	Section 2 inclines
	Section 2 shaft
	Section 27 prospect
	Section 34 gold prospect
	Section 34 mercury prospect
	Talapoosa mines
	zz unknown
Tungsten Mountain	Nevada Gold group
	Rocky Canyon prospect
	Scott prospect
Voltaire	Carson Black Lead mine
	Open-Cut prospect
	Premier mine
	Unnamed shaft and adits
	Voltaire mine (?)
Washington	Section 19 prospect
	Section 21 gold prospect
	Section 32 gold prospect
	Silver King mine
Wedekind	Wedekind mine
	zz unknown
Wellington	Boulder Hill claims (north)
	Boulder Hill claims (south)
	Boulder Hill mine
	Imperial claims
	Section 1 adit
	Section 19 workings
	Section 31 gold prospect
	Sun #1 claim

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Wellington	Sun #4 & #5 claims
Westgate	Sample site 4310
	Sample site 4311
	Sample site 4312
	Sample site 4313
Whisky Flat	Anchorite Hills prospect
	Qualey Mine
Wild Horse	Mack claims
	McCoy mine
	Red Bird mine
Wilson	Beita claims
	Cambridge mine
	Horse Whim shaft
	Horseshoe mine
	Jack Pot mine
	MG #2 claim
	North Star claims
	Rockland mine
	Section 13 shafts and adits
	Section 31 prospect
	Section 32 adit
	Section line shaft
	Smith Valley mine
	Sugar Loaf workings
	Telluride claims
	Wheeler mine
	Wilson mine
Wonder	Hercules adit
	Jack Pot mine
	Purple Star Prospect
	Silver Center claim HD 1
	Silver Center claim HD 3
	Silver Center mine
	Spider and Wasp patented claim
	Spider and Wasp patented claims
	Treasure Hill #1075 claim
	Treasure Hill claim #1061
	Treasure Hill claim #1066
	Treasure Hill claim #1067
	Treasure Hill claim #1072
	Treasure Hill claim #1075
	Treasure Hill claim #1079
	Treasure Hill claim #1125
	Treasure Hill claim #1131
	Treasure Hill claim #1134
	Treasure Hill claim #1148
	Treasure Hill claim #1149
	Treasure Hill claim #1157
	Treasure Hill claim #1177
	Treasure Hill claim #1196

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<u>MINING DISTRICT</u>	<u>PROPERTY NAME</u>
Wonder	Treasure Hill claim #1211
	Treasure Hill claim #1213
	Treasure Hill claim #1417
	Treasure Hill claims #1075, #1076
	Vulture mine
	Wonder Mine
Yerington	Blue Hill claims
	Blue Jay mine
	Blue Rose claims
	Casting Copper mine
	CMB claim #6
	Copper Ridge mine
	Coyote #6 claim
	Dottie claim
	G.B. Martin claims
	Gap claim
	Homestake mine
	LGCS claims
	Little Jon claims
	Ludwig mine
	MacArthur copper property
	Martha Washington shaft
	McCoy prospect
	Montana-Yerington mine
	NW Section 31 copper-gold prospect
	Occasion claim
	Pactulus Corp. claims
	Poison Rock claims (east)
	Poison Rock claims (west)
	Section 13 copper prospects
	Section 14 shafts
	Section 15 shaft and adit
	Section 15 shafts
	Section 19 prospect
	Section 21 shafts and adits
	Section 23 incline
	Section 27/28 shaft
	Section 29 prospect
	Section 34 shaft
	Section 36 shafts
	Section 9 prospects
	Ser Mines prospect
	SW Section 10 shafts and adits
	Tede Boy claims
	Valemar claim
	Western claim

PROPERTY NAME: Allen Springs shaft

OTHER NAMES:

MINING DISTRICT: Allen Hot Springs area

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Allen Springs

OWNERSHIP:

SEC: ,T: ,R:

North: 4341292 East: 353964

PRODUCTION: none

HISTORY: unknown

DEVELOPMENT: 30-foot deep, vertical shaft, timbered at collar

GEOLOGY: Shaft was sunk on N30W-striking, 35-degree SW-dipping fracture system which cuts rhyolite welded ash-flow tuff. The tuff is reddish on its weathered surface, contains quartz and sanadine phenocrysts. South of the shaft, outcrop of tuff is cut by N35E-striking, 80-degree SE-dipping fractures. Thin breccias occur along the fractures, are silica-cemented. Silica coatings on fracture surfaces shows vertical striations--looks like effects of gas-streaming along hydrothermal vents. Rock fragments along the zone are coated with very-fine-grained, clear, euhedral quartz crystals. Brick red to brown limonite staining occurs along the fractures and in parallel fracture zones. Lineation of pumice fragments in the tuff est. N50E, dip 25-degrees NW. The NW-striking fracture set also exposed in outcrop to south; these fractures are bleached and kaolinized up to 2-inches away from each fracture; some irregular quartz veinlets up to 1/8-inch thick occur along zone. Minor manganese-oxide staining also is present. The NW-trending zone is weakly sheeted.

REMARKS: This area is located immediately northwest of Navy bombing range; drifting sand makes access to area difficult.

SAMPLE SITE: 4342

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 26, 1989

Attachment:

PROPERTY NAME: Drill pipe prospect
OTHER NAMES:
MINING DISTRICT: Allen Hot Springs area
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, thermal water(?)
TYPE OF DEPOSIT: shear zone, hot spring
QUAD SHEET: Allen Springs
OWNERSHIP:
SEC: ,T: ,R:
North: 4341962 East: 353127
PRODUCTION: none
HISTORY: unknown
DEVELOPMENT: Several shallow prospect pits, drill pads
GEOLOGY: N60W-striking, vertical, fracture zone cuts fine-grained latite or rhyolite flow. Both limonite flooding and silica veinlets occur along the fracture zone; silica veinlets have limonite along boundaries, some dendritic manganese-oxide staining.
REMARKS:
SAMPLE SITE: 4343
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: July 26, 1989
Attachment:

PROPERTY NAME: Cold Springs prospect

OTHER NAMES:

MINING DISTRICT: Alpine

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Shear zone, breccia

QUAD SHEET: Cold Springs

OWNERSHIP:

SEC: ,T: ,R:

North: 4362500 East: 428920

PRODUCTION:

HISTORY:

DEVELOPMENT: Adits on the west slope of the hill, some stoping

GEOLOGY: Workings are along N60 to 70W, 70 degree SW-dipping silicified shear zone in lithic-rich, rhyolite ash-flow tuff. Bands of white chalcedonic quartz, some with lamellar quartz after calcite, follow the shear zone. At cut north of twin adits, late-stage breccia with rock-flour matrix is exposed. Some manganese- and iron-oxide staining coat rock fragments. Top of hill is capped by N35W, 5 degree NE-dipping layer of silicified breccia about 4 to 5 feet thick. Breccia is composed of fragments of veined, silicified ash-flow tuff in silica matrix. Some breccia fragments cemented with lamellar quartz; large areas between major silicified zones are kaolinized, original biotite altered to muscovite. Banding in tuff appears to be N60-70W, dips NE on west slope, SW on top, the NW-trending sheeted zone cuts banding, quartz veining follows the sheeted zone

REMARKS:

SAMPLE SITE: 3488, 3489

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 17, 1989

Attachment:

PROPERTY NAME: Unnamed prospect 1
OTHER NAMES: Florence Canyon mines
MINING DISTRICT: Alpine
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Clan Alpine Ranch
OWNERSHIP:
SEC: 19 ,T: 19N ,R: 37E
North: 4372999 East: 425191

PRODUCTION:

HISTORY:

DEVELOPMENT: Series of trenches, open stopes along structure, and an adit driven from hill slope to the south to intersect vein

GEOLOGY: N60E, near-vertical shear zone in kaolinized, welded ash-flow tuff. Shear zone contains vein material, up to 18 inches thick; vein is composed of banded quartz, brecciated and cemented with quartz. Vein material is vuggy, vugs are coated with drusy quartz crystals, some black sulfides present, possibly argentite or tetrahedrite.

REMARKS: This is the "unnamed prospect" of Schrader (1947) that lies 400 feet SW of the Windlass mine

SAMPLE SITE: 4009

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 19, 1989

Attachment:

PROPERTY NAME: Windlass mine
OTHER NAMES: Florence Canyon mines
MINING DISTRICT: Alpine
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Clan Alpine Ranch
OWNERSHIP:

SEC: 19 ,T: 19N ,R: 37E
North: 4372934 East: 425487

PRODUCTION:

HISTORY:

DEVELOPMENT: Inclined shaft, 65 degrees to north, cuts, and adit driven to south from canyon below to intersect vein, access roads and cuts between adit and upper shaft

GEOLOGY: Shaft sunk on EW-trending, 65 degree north-dipping vein in welded ash-flow tuff. The vein is brecciated, vuggy, vugs are filled with acicular quartz crystals, gossan clots. Sprays and clots of almost-black specular hematite occur throughout the vein and adjacent wall rock. The mineral has a blood-red internal color. Adularia occurs as a separate band within the vein structure. The veins occur within a wide sheeted zone within the tuff; possibly some argentite present.

REMARKS: The inclined shaft was described by Schrader(1947); the lower adit is more recent and has been worked within the past 1 or 2 years.

SAMPLE SITE: 4008, 4010

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 19, 1989

Attachment:

PROPERTY NAME: Antelope mine
OTHER NAMES: Antelope Vein System
MINING DISTRICT: Aurora
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Aurora
OWNERSHIP: Unknown
SEC: ,T: 5N ,R: 28E
North: 4237828 East: 333847
PRODUCTION: No records
HISTORY: From the 1860's
DEVELOPMENT: Many more workings than are shown on the map which includes about 6 shafts, adits, trenches, prospects and a mill.
GEOLOGY: Sample was taken from a number of different dumps along a northeast-trending vein which dips irregularly and is hosted in altered tuff(?) The vein material includes vuggy, manganese-stained quartz, quartz breccia, and silicified gouge.
REMARKS: Poor roads and little or no activity in this portion of the camp.
SAMPLE SITE: 3762
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-3-89
Attachment:

PROPERTY NAME: Aurora mine
OTHER NAMES: Nevada Goldfields property
MINING DISTRICT: Aurora
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Aurora
OWNERSHIP: Nevada Goldfields Inc., Aurora Div.
SEC: ,T: 5N ,R: 28E
North: 4238922 East: 334599
PRODUCTION: The most productive district in the county, accounting for 40% of the total county production, over \$30,000,000 to date
HISTORY: Discovered in 1860's productive from 1861-1869 when it produced over \$29,000,000, with another \$1,850,000 between 1914-1918. Intermittent between these periods and currently operating as an open-pit and heap leach operation.
DEVELOPMENT: Open-pit and heap leach plant, extensive roads, with more than 200 hundred claims and five years of ore reserves.
GEOLOGY: The host rocks in the camp are dominately Tertiary andesites and latites, much of which have been altered by propylitization and intense silicification. The ore controls are mainly N 45 degrees - 55 degrees E faults that dip from 30 degrees SE to 75 degrees NW. The ore consists of free gold, electrum, acanthite and naumanite.
REMARKS: Good roads from Hawthorne in the east over Lucky Boy Pass. Presently the mine is producing at a rate of 1000-1500 ton/day of .08 oz/ton of gold and perhaps 14 times that in silver.
SAMPLE SITE: 3759
REFERENCES: Hill, J.M., 1915, Some Mining Districts in Northeastern California, and Northwestern Nevada, USGS Bull 594.
Ross, D.C., 1961, Geology and Mineral Deposits of Mineral County, Nevada, NBMG Bull 58.
EXAMINER: Jack Quade
DATE VISITED: 6-3-89
Attachment:

PROPERTY NAME: Chesco #5 claim
OTHER NAMES:
MINING DISTRICT: Aurora
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mount Hicks
OWNERSHIP: Unknown
SEC: ,T: 5N ,R: 28E
North: 4241815 East: 338483
PRODUCTION: Unknown
HISTORY: Unknown, but these are very old workings
DEVELOPMENT: Two shafts
GEOLOGY: A 20-foot wide quartz breccia vein bearing N 15 degrees E and dips 55 degrees-65 degrees SE is explored from two sides by two very old shafts. Country rock is a light-tan, highly silicified, lithic tuff. The area in general is covered by basalt float. The eastern shaft dump is almost all tuff with minor quartz while the western dump is almost all quartz and quartz breccia.
REMARKS: To the east of the pole line road.
SAMPLE SITE: 3757
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-3-89
Attachment:

PROPERTY NAME: Eureka Tunnel
OTHER NAMES: Eureka Vein
MINING DISTRICT: Aurora
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Aurora
OWNERSHIP: Unknown
SEC: ,T: 5N ,R: 28E
North: 4238045 East: 333754
PRODUCTION: No records
HISTORY: These workings are part district dates from the 1860's
DEVELOPMENT: At least 4 shafts and adits relate to this major structure.
GEOLOGY: Major vein structure bearing N 75-80 degrees E cuts the camp for a third of a mile on the surface adjacent to and in contact with an andesite dike. Major adit (Eureka tunnel) is collared in the andesite and crosscuts the system. Vein material from these workings consists of a vuggy, manganese-stained quartz breccia with fine-grained pyrite.
REMARKS: Many more workings in the district than are shown on the map particularly in this part of the camp.
SAMPLE SITE: 3761
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-3-89
Attachment:

PROPERTY NAME: Live Yankee shaft
OTHER NAMES:
MINING DISTRICT: Aurora
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Aurora
OWNERSHIP: Unknown
SEC: ,T: 5N ,R: 28E
North: 4237810 East: 334722
PRODUCTION: No records
HISTORY: Dates from the 1860 period. Picture of the dumps appear in the background photo's of the town of Aurora.
DEVELOPMENT: Major shafts and adit, with trenching to the southwest.
GEOLOGY: The major shaft is in altered rhyolite very near a contact with an andesite dike. Stockpiles of quartz vein adjacent to the shaft consist of very vuggy, highly-silicified material with less brecciation, and increased fine-grained pyrite.
REMARKS: No roads to workings.
SAMPLE SITE: 3760
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-3-89
Attachment:

PROPERTY NAME: Section 28 cross-cut adit

OTHER NAMES:

MINING DISTRICT: Aurora

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Vein

QUAD SHEET: Mount Hicks

OWNERSHIP: Unknown

SEC: 28 ,T: 6N ,R: 28E

North: 4245410 East: 338035

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: An adit

GEOLOGY: A cross-cut adit driven N 70 degrees E attempted to intersect a huge vein system composed of chertified quartz breccia. The vein, which can be traced for over one hundred yards, is hosted in highly-altered volcanics. Sample 3756 was chipped directly from the outcropping vein.

REMARKS: Access to the area is from the pole-line road.

SAMPLE SITE: 3756

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 6-3-89

Attachment:

PROPERTY NAME: Siskon Corp. shaft

OTHER NAMES:

MINING DISTRICT: Aurora

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Aurora

OWNERSHIP: Siskon Corp., P.O. Box 7278, Reno, NV

SEC: ,T: 5N ,R: 28E

North: 4238080 East: 335092

PRODUCTION:

HISTORY: The Camp dates from the early 1860's, and these types of workings would have been common as prospects during that period. Presently adjacent to a very large open-pit operation.

DEVELOPMENT: One of the many small shafts in this portion of the district.

GEOLOGY: Small shaft sunk on a small vein in highly altered latite, just north of a very large wooden mill. The vein consists of vuggy, iron-stained quartz and quartz breccia in bleached latite; no metallic mineralization was noted.

REMARKS: Located just south of pit with a high vertical wall to the west and operated by Nevada Goldfields. Much of the early history of this camp and many of the individual mine names are unknown.

SAMPLE SITE: 3758

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 6-3-89

Attachment:

PROPERTY NAME: Blue Bird prospect

OTHER NAMES:

MINING DISTRICT: Bell

COUNTY: Mineral

MINERAL COMMODITY(IES): tungsten

TYPE OF DEPOSIT: skarn

QUAD SHEET: Simon

OWNERSHIP: Unknown

SEC: ,T: 8N ,R: 37E

North: 4264172 East: 429815

PRODUCTION: Loading ramp but workings are small.

HISTORY: Unknown

DEVELOPMENT: Small amount of trenching along contact zone.

GEOLOGY: Workings follow a contact zone between Luning limestone and granite.

Skarn zone formed is not more than a few feet along its strike length.

REMARKS:

SAMPLE SITE: 3526

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-6-89

Attachment:

PROPERTY NAME: Bud claims
OTHER NAMES: The Standard Mag Co.
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): diatomite
TYPE OF DEPOSIT: Lake deposits
QUAD SHEET: Cole Spring
OWNERSHIP: Standard Mag Co., there are claim papers dating back to the early 1940's for the area.
SEC: 5 & 6 ,T: 7N ,R: 37E
North: 4260893 East: 435108
PRODUCTION: Some open-pits which may be exploration.
HISTORY: Staking covers an area of several miles and staking has been continuous for close to fifty years.
DEVELOPMENT: Numerous prospects and pits cover a two mile area.
GEOLOGY: The area is underlain by fresh-water lake deposits of clear, white diatomite. The diatomite is thin-bedded and contains interbeds of tuffaceous and shaley material, detracting from its purity. Diatomite lies at or near the surface throughout the general area, the beds are flat-lying but locally dip up to 25 degrees. Thicknesses of 25 feet are exposed, but the lower contact was not observed (Archbold, 1966).
REMARKS: Photo 5
SAMPLE SITE: 3523
REFERENCES: Archbold, 1966, NBMG Report 14
EXAMINER: Jack Quade
DATE VISITED: 4-6-89
Attachment:

PROPERTY NAME: Cedar Chest mine

OTHER NAMES:

MINING DISTRICT: Bell

COUNTY: Mineral

MINERAL COMMODITY(IES): tungsten

TYPE OF DEPOSIT: skarn

QUAD SHEET: Simon

OWNERSHIP: M.N. Kennan, P.O. Box 6595 Incline Village, Nevada (1987)

SEC: ,T: 8N ,R: 37E

North: 4264182 East: 430048

PRODUCTION: Thought to be small

HISTORY: Unknown

DEVELOPMENT: An adit, several small shafts, pits and prospects, ore bin still in place and shows a fair amount of wear, adit accessible shafts are not.

GEOLOGY: West-bearing adit is the main workings and follows a contact between the Luning limestone and younger granite. One of the shafts is on the same strike and produced some ore. Ore from an ore bin and dumps contained scheelite, calcite, epidote, and garnet.

REMARKS:

SAMPLE SITE: 3525

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-6-89

Attachment:

PROPERTY NAME: Cedar claims
OTHER NAMES: Amax claims (1981)?
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz breccia/vein
QUAD SHEET: Stewart Spring
OWNERSHIP: Amax staked the area in 1981
SEC: 36/31 ,T: 9N ,R: 37E
North: 4272035 East: 420615
PRODUCTION: Unknown
HISTORY: Sometime after Amax staked the older workings they built road and drilled the area above and to the east of the workings.
DEVELOPMENT: Several small shafts and prospects...more recent roads to the east and above these workings.
GEOLOGY: The main workings follow a N50 degree E, vertically dipping 10-foot-wide vein of highly silicified breccia containing fine-grained pyrite in older altered volcanics. Sample 3531 was from the dumps and chipped from the exposed vein.
REMARKS:
SAMPLE SITE: 3531
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Cedar Summit mine

OTHER NAMES:

MINING DISTRICT: Bell

COUNTY: Mineral

MINERAL COMMODITY(IES): copper, silver, tungsten

TYPE OF DEPOSIT: Gossan with underlying sulfides

QUAD SHEET: Simon

OWNERSHIP:

SEC: 36 ,T: 8N ,R: 37E

North: 4262335 East: 433180

PRODUCTION: Unknown

HISTORY: Several adits and a shaft sometime in the past...very recent dozing, road building and drilling (April 1989)

DEVELOPMENT: Older adits and shaft, newer roads and drilling, have tripled the size of the original area of interest.

GEOLOGY: Tertiary sediments and volcanic tuffs intruded by what looks to be a highly-altered granite exposed in the eastern most upper pit. The northern part of the pit has what remains of an adit driven westerly into a gossan-like, reddish brown mass with some magnetite. The rest of the eastern pit is part intrusive and numerous veins and veinlets forming an almost pipe-like feature that is covered with copper oxides and sulfides. A dozer cut on the north side of the hill is in fractured, light-brown, silicified sediments with azurite, conocalcite, and other copper oxides coating fracture faces and filling cavities. The upper southside of the hill has a second pit that is cut by a massive pod of magnetite that has been stockpiled next to the pit. There is also a smaller vein of sulfides, silver in color, from the pit. The hill and surrounding area is cut by roads and drill pads very recently in use. Sample 3524 was taken randomly from the pits and exposed veins.

REMARKS:

SAMPLE SITE: 3524

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-6-89

Attachment:

PROPERTY NAME: Costa mine

OTHER NAMES:

MINING DISTRICT: Bell

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Quartz veins

QUAD SHEET: Simon

OWNERSHIP: J. Costa (1943)

SEC: ,T: 9N ,R: 37E

North: 4272171 East: 426780

PRODUCTION: Small

HISTORY: First worked for gold, later for both gold and mercury.

DEVELOPMENT: Shaft, adit, a winze, and a sublevel plus scattered open cuts.

There are several older shafts, some of which have been dozed.

GEOLOGY: Country rock is a bleached white, iron-stained, hydrothermally altered, older andesite that is capped by silicified rhyolite. The cinnabar was reported to have been associated with a vertical north-trending fault and the gold with pyrite in quartz veins. Sample 3528 was taken from dumps associated with the main workings.

REMARKS:

SAMPLE SITE: 3528

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-6-89

Attachment:

PROPERTY NAME: Cute Maid mine

OTHER NAMES:

MINING DISTRICT: Bell

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Quartz veins

QUAD SHEET: Simon

OWNERSHIP: R. Ward, C. W. Douglas, G. W. Jones and Jack Maddleson.

SEC: ,T: 9N ,R: 37E

North: 4272745 East: 426923

PRODUCTION: Unknown

HISTORY: Older workings were relocated in 1955 with some production thereafter.

DEVELOPMENT: Several closely-spaced shafts and open workings.

GEOLOGY: At least three closely spaced shafts follow a N25W, 75SW-dipping, 3-4 foot wide quartz vein in completely altered and bleached white, older volcanics. The vein has been stoped through to the surface along its strike between the shafts. Sample 3527 was taken from within the stopes and from along the exposed vein. There has been considerable material removed so there must have been some production.

REMARKS:

SAMPLE SITE: 3527

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-6-89

Attachment:

PROPERTY NAME: OMCO mine
OTHER NAMES: Olympic mine, Royal George group
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Stewart Spring
OWNERSHIP: Olympic Mine Co. Staked by John and James Peterson of Fallon in 1986.
SEC: ,T: 9N ,R: 37E
North: 4273434 East: 422297
PRODUCTION: \$800,000 mostly in gold and silver
HISTORY: Discover...James Nelson in 1915...most active from 1918 to 1931, small production from 1937 to 1939.
DEVELOPMENT: Inclined shaft 225 feet deep with three levels...reported to be 3000 feet of workings. Old head frame still standing but mill is gone. Some of the mill tailings have been removed.
GEOLOGY: The main vein was from 1 to 7 feet in width consisting of quartz vein and silicified rhyolite. Initially the vein strikes N25 degree W dipping 40 degree W; at depth the vein flattens and reverses to 25 degrees E dip. The best ore was chalky in appearance with no visible mineralization. To the west the vein has been cut by a fault and the displaced segment has not been located or possibly it was eroded. The gold was reported to be finely disseminated. Sample 3529 was from the dumps.
REMARKS:
SAMPLE SITE: 3529
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-6-89
Attachment:

PROPERTY NAME: Siebert East claims
OTHER NAMES:
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Stewart Spring
OWNERSHIP: Unknown
SEC: ,T: 8N ,R: 37E
North: 4273409 East: 421173
PRODUCTION: None
HISTORY: Unknown but old
DEVELOPMENT: A line of shallow shafts and adits.
GEOLOGY: Shallow workings, like many in the area of the OMCO Mine, are exploring northwest or east-west veins in highly altered older volcanics. Sample 3530 was a random sample from dumps associated with workings in older altered rhyolite.
REMARKS:
SAMPLE SITE: 3530
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-6-89
Attachment:

PROPERTY NAME: Simon mine
OTHER NAMES:
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead, zinc
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Simon
OWNERSHIP: Mr. Swanson of Mina...current lessor
SEC: ,T: 8N ,R: 37E
North: 4268587 East: 424494
PRODUCTION: \$740,000 in silver, lead, and zinc
HISTORY: Discovered in 1879 when lead was mined from gossan. In 1919 silver-bearing lead-zinc ore discovered in sulfide zone beneath the gossan; largest production years were 1921-1927.
DEVELOPMENT: Two shafts with about five miles of underground workings on 7 levels. The deepest workings are 800 feet.
GEOLOGY: Alaskite has intruded Luning Limestone as a pipelike, dike structure that has formed replacement bodies in the limestone. The ore bodies which are also complexly faulted consist of galena and spalerite enclosed in dark fine-grained quartz in limestone and localized near the alaskite dike. Samples 3533 and 3534 were taken from separate dumps associated with the main shafts.
REMARKS: While usually considered to be a silver mine, this deposit has the largest production of lead in Mineral County
SAMPLE SITE: 3533, 3534
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Strike claims
OTHER NAMES:
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, silver
TYPE OF DEPOSIT: Gossan
QUAD SHEET: Dicalite Summit
OWNERSHIP: Ken Palosky staked the claims in 1984
SEC: ,T: 7N ,R: 37E
North: 4256044 East: 432972
PRODUCTION: Unknown
HISTORY: It looks as though the area has had different periods of exploration.
DEVELOPMENT: Two shallow shafts, numerous prospects and bulldozer cuts.
GEOLOGY: The workings have exposed the gossan-like deposit along the strike of a N70 degreeW shear that is hosted in a light tan volcanic tuff. The mineralization includes manganese-oxide, copper sulfides and oxides. Silica, calcite and iron oxides make up the secondary minerals.
REMARKS: Photo 4
SAMPLE SITE: 3522
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-6-89
Attachment:

PROPERTY NAME: West of the Simon mine
OTHER NAMES:
MINING DISTRICT: Bell
COUNTY: Mineral
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Quartz and calcite veins
QUAD SHEET: Stewart Spring
OWNERSHIP: Mr. Swanson of Mine (1989)
SEC: ,T: 8N ,R: 37E
North: 4268245 East: 423694
PRODUCTION: Unknown from this property
HISTORY: Looks to be the same as the Simon which was discovered in 1879, but there was greater production in the 1920's.
DEVELOPMENT: A small shaft and several different adits and prospects.
GEOLOGY: The workings are in limestone of the Luning Formation, much of which is highly faulted. These particular workings do not appear to have cut good ore.
REMARKS:
SAMPLE SITE: 3532
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-7-89
Attachment:

PROPERTY NAME: Bell Mountain mine

OTHER NAMES:

MINING DISTRICT: Bell Mountain

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Fault zone, stockworks

QUAD SHEET: Bell Canyon

OWNERSHIP:

SEC: ,T: ,R:

North: 4337358 East: 402807

PRODUCTION: small, but amount not known

HISTORY: Old workings predate 1920's, recent exploration work blocked out large tonnage of bulk-minable silver ore but site is not active at the present time.

DEVELOPMENT: Shallow shaft, exploration adit, considerable trenching and drilling

GEOLOGY: Exploration follows EW-trending, silicified, quartz stockworks zone; zone is about 600 feet wide, rock type varies from ash-flow tuff to ash-flow-tuff breccia, all laced with white, vuggy quartz veins along EW, near-vertical trend. Fracture surfaces are coated with clear, manganese-oxide-, and iron-oxide-stained quartz crystals, some lamellar quartz-after-calcite, also areas of hydrothermal brecciation parallel EW structures. Old shafts on west end of structure are sunk on massive, white calcite vein about 20 feet thick. Calcite vein is exposed for about 50 feet across southern nose of hill. Vein strikes EW and dips 45 degrees south. The vein appears to be barren, a footwall zone in rhyolite, however, is laced with silica and has 3 inch-wide band of gossan. The massive calcite vein is cut by later quartz veinlets; fractures in the calcite vein are coated with drusy quartz crystals.

REMARKS: Exploration and development at this property proceeded to the stage of leveling ground for processing ore; apparently metal prices discouraged placing the property into production

SAMPLE SITE: 4307, 4308, 4309

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 19, 1989

Attachment:

PROPERTY NAME: Cye Cox prospect

OTHER NAMES:

MINING DISTRICT: Bell Mountain

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Fault zone

QUAD SHEET: Bell Mountain

OWNERSHIP:

SEC: ,T: ,R:

North: 4339477 East: 408856

PRODUCTION: unknown

HISTORY: unknown

DEVELOPMENT: Extensive recent trenching and drill road construction; large open pit on west-facing slope of steep canyon; pit over old underground workings and, in one area, pit floor is caving into top of old drift.

GEOLOGY: Old drift follows EW-striking, 60N-dipping fault zone in silicified rhyolite. Two-three parallel fault zones are exposed in face of the open cut above the old workings; the faults are expressed as rubble zones 2- to 3-feet thick, are not cemented, follow older fractures and veins in the silicified rhyolite. The southern-most fault exposed in the face of the cut has about 3 inches of sugary quartz vein on the footwall, fault has vein fragments included in fault gouge. Fractures in wall rock between major faults are flooded with dull brown and red-brown iron oxides and black manganese oxides. Some vugs in vein material are coated with acicular quartz crystal. Rock between the major structures is brecciated and cemented with silica; brecciation is, in general, not obvious.

REMARKS: Old buildings, trailers, construction machinery, and remains of leach pad in the canyon below mine indicate attempt at leach operation; doesn't look like any production occurred, however.

SAMPLE SITE: 4302

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 18, 1989

Attachment:

PROPERTY NAME: Blue Sphinx mine
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Poinsettia Spring
OWNERSHIP: Unknown
SEC: 33 ,T: 11N ,R: 32E
North: 4292637 East: 380588
PRODUCTION: Unknown
HISTORY: Part of the 1908 workings
DEVELOPMENT: Adits and prospects
GEOLOGY: Workings follow a northwest-trending fault zone in highly altered and argillized volcanics. The fault zone is filled with gouge, quartz stringers, and lesser amounts of breccia.
REMARKS: Almost no remaining roads.
SAMPLE SITE: 3692
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Bovard mine

OTHER NAMES:

MINING DISTRICT: Bovard

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Poinsettia Spring

OWNERSHIP:

SEC: 33 ,T: 11N ,R: 32E

North: 4292265 East: 380650

PRODUCTION: Some ore reported to have been shipped in 1915

HISTORY: Discovered in 1908 and worked continuously until late 1910; work all development, no production; some ore worth \$35/ton reported to have been shipped in 1915, development done in 1920's, no reported activity since 1931.

DEVELOPMENT: Shaft, adit and several thousand feet of workings. Four levels to a depth of 450 feet.

GEOLOGY: At the Bovard mine, the vein is nearly all in pyritic rhyolite near a dacite contact; the ore on the dump is banded and contains a little disseminated pyrite and chalcopyrite, some quartz present is pseudomorphic after calcite, the vein is generally accompanied by a tabular sheet of clay, a few inches to a few feet in thickness. This is substituted by alunite in some areas.

REMARKS: Old roads torn up by recent drilling. Area around old shaft is completely torn up by dozing. Some drilling within the last five years.

SAMPLE SITE: 3691

REFERENCES: Schrader, F. C., 1947, Carson Sink area: U.S.G.S. Open-File Report Vanderburg, 1937, Reconnaissance of Mining Districts in Mineral County, Nevada USBMIC 6941.

EXAMINER: Jack Quade

DATE VISITED: 5-17-89

Attachment:

PROPERTY NAME: Copper Mountain mine
OTHER NAMES: Copper Mountain property, Snow Storm, Bounder
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, gold, silver, molybdenum
TYPE OF DEPOSIT: skarn
QUAD SHEET: Copper Mtn.
OWNERSHIP: Charles Oster (1966), 5 patented clai
SEC: 35 ,T: 12N ,R: 31E
North: 4301998 East: 374069
PRODUCTION: Estimated to be \$125,000, \$93,000 produced by the Jumbo Mining Co.
HISTORY: Discovered prior to the 1930's
DEVELOPMENT: Four shafts, three of which have connecting crosscuts and drifts, also numerous prospects.
GEOLOGY: The deposits occur along an irregular contact between granite and Luning limestone. The ore is silicified and highly oxidized. The ore occurrences were reported to be thin coatings up to several inches thick that often led to valuable ore bodies...The ore as also disseminated as grains and streaks in altered quartz monzonite and occurred as disseminations and large masses in garnetized limestone adjacent to the contact.
REMARKS: Good road to the east of the property fair from there ot mine.
SAMPLE SITE: 3702
REFERENCES: Turner, J.K., 1937, Unpublished Preliminary report of Copper Mountain Property.
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Last Hope mine
OTHER NAMES: Bovard Rand mine, Lone Star mine
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Copper Mtn.
OWNERSHIP: Koegal, Huber and Pike
SEC: 29 ,T: 11N ,R: 32E
North: 4293742 East: 378355
PRODUCTION: Some production but the amount is unrecorded.
HISTORY: Was discovered as part of the Bovard-Rand property and was active during 1914-1929 and after 1933.
DEVELOPMENT: A 200-foot shaft, a 150-foot crosscut from the main shaft, and a ore-bin. The property consists of 3 full claims and lessor fraction, covering about 3000 feet along a granodiorite-andesite contact; part of the Bovard-Rand property.
GEOLOGY: The orebody, reported to be up to 8 feet wide, occurs in crushed andesite along the N80 degrees - 85 degrees W-trending andesite-granodiorite contact. The ore was soft, heavily iron and manganese stained, and contained occasional stringers and nodules of Mn-stained quartz. Values were in free gold and silver. A sample was taken from the ore bin and consisted of vuggy iron-stained quartz and breccia.
REMARKS: New roads and drilling to the southeast of these workings is along the N80 degrees - 85 degrees W trend.
SAMPLE SITE: 3688
REFERENCES: Sirdevan W.H., 1913, Report on the Last Hope Mine, Unpublished Nevada: Bureau of Mines File.
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Little Tinker claims

OTHER NAMES:

MINING DISTRICT: Bovard

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Vein

QUAD SHEET: Pilot Cone

OWNERSHIP: Lucky Day Exploration, Ken Palosky, Box 345, Babbit, NV

SEC: 36 ,T: 13N ,R: 31E

North: 4311428 East: 372974

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT:

GEOLOGY:

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER:

DATE VISITED:

Attachment:

PROPERTY NAME: Nevada Rand mine
OTHER NAMES: Randal Property, Bovard, Koegel
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins, replacement bodies
QUAD SHEET: Copper Mtn.
OWNERSHIP: Unknown
SEC: 30 ,T: 11N ,R: 32E
North: 4313566 East: 325857
PRODUCTION: Reported to be \$150,000 by 1936 but these are not complete production figures.
HISTORY: Property was discovered in 1908 by Al Bovard and others from Rawhide. Major production prior to 1937 was from 1914 to 1929 and after 1933.
DEVELOPMENT: Shaft, maximum depth 450 feet with levels at 50, 150, 250, 350 and 450 feet, with intermediate levels at 180 and 200 feet. Headframe, loading bin, blacksmith shop...some later road building and drilling within the last 3 years.
GEOLOGY: Faulting, in general, trends northwest while the major mineralization in the district appears to follow a N 80 degrees-85 degrees W trend. Within the district, a thin unit of andesite breccia is overlain by rhyolite which is in fault contact with the andesite. Alteration consists of bleaching in andesite and development of jarosite due to oxidation of small crystals of pyrite. Primary deposition of ore minerals followed by secondary enrichment to 250 feet. Richest ore occurred in lenses of iron-stained quartz gouge in sheared volcanics. Vanderburg reported "Some of the silver is alloyed with gold and some occurs as cerargyrite and argentite. The rich ore occurs in lenses of quartz gouge stained with iron and manganese oxides." Sample 3687 was taken from the ore-bin and area near shaft. The sample consisted of brecciated vein quartz with visible lead-silver and copper minerals.
REMARKS: Recentwork is approximately 2 miles to the west but in similar rocks. To the east, road building and drilling have been done along the major structure.
SAMPLE SITE: 3787
REFERENCES: Vanderburg, 1937, Reconnaissance of Mining Districts in Mineral County, Nevada; USBM I.C. 6941.
Ross, D.C., 1961 Geology of Mineral Deposits of Mineral County, Nevada: NBMG Bull 58.
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Sap #1 claim
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, silver
TYPE OF DEPOSIT: Breccia, quartz vein
QUAD SHEET: Pilot Cone
OWNERSHIP: Spectrum Exploration, P.O. Box 826, Hawthorne, NV
SEC: 23 ,T: 12N ,R: 31-1/2E
North: 4305361 East: 374558
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and adit
GEOLOGY: N10 degrees W-striking, 70 degrees SE-dipping, 3-foot thick quartz vein in granite, opened by a shallow shaft and adit near the top of a ridge. The workings exposed a highly mineralized quartz vein and breccia containing both oxides and sulfides of copper; portions of the vein are mineralized quartz breccia. A second shaft near the bottom of the hill follows the strike of the vein but does not appear to have encountered mineralization.
REMARKS: None of the workings are on the map.
SAMPLE SITE: 3704
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Sundance claims

OTHER NAMES:

MINING DISTRICT: Bovard

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Copper Mtn.

OWNERSHIP: Unknown

SEC: 24 ,T: 11N ,R: 31E

North: 4296799 East: 375637

PRODUCTION: Unknown

HISTORY:

DEVELOPMENT: Shafts and prospects.

GEOLOGY: An area of old workings in highly altered (argillized) and bleached white volcanics. Shaft was sunk on shear with quartz stringers bearing N20 degrees E. The shear is up to 4 feet in width where exposed.

REMARKS: Just off the new and improved road to Rawhide.

SAMPLE SITE: 3701

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-18-89

Attachment:

PROPERTY NAME: Tinker claims
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Pilot Cone
OWNERSHIP: Lucky Day Exploration, Ken Palosky, Box 345, Babbit, NV
SEC: 2 ,T: 12N ,R: 31E
North: 4310486 East: 374107
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft
GEOLOGY: Small shaft in bleached white, hudrothermally-altered volcanics.
Small vein includes iron-stained silicified vein and secondary quartz. Similar
prospects occur both north and south of these workings.
REMARKS: Dozer-roads many of which do not appear on map.
SAMPLE SITE: 3706
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Tinker Pine claims
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: dike
QUAD SHEET: Pilot Cone
OWNERSHIP: Unknown
SEC: 6 ,T: 12N ,R: 32E
North: 4310321 East: 376997
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Dozer-cuts and numerous prospects, shallow adits and pits.
GEOLOGY: Sample 3707 was taken from a N40 degrees E-striking vertical, dike that was prospected along its strike and drilled at the sample site. The host volcanics have been argillitized. The dike is highly silicified but without visible mineralization.
REMARKS: Dozer road both north and south, but not on topo map.
SAMPLE SITE: 3707
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Unnamed prospect
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: replacement
QUAD SHEET: Copper Mtn.
OWNERSHIP: Unknown
SEC: ,T: ,R:
North: 4289939 East: 374880
PRODUCTION: Unknown
HISTORY: New roads and dozer-cuts.
DEVELOPMENT: Roads, dozer-cuts, drill pads.
GEOLOGY: Exploration drilling has been directed at outcrops of light-tan, hydrothermally altered, partially silicified sedimentary rocks similar to those observed at the Nevada Rand Mine.
REMARKS: New road east of the Ryan Canyon road.
SAMPLE SITE: 3686
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Unnamed prospects
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Poinsettia Spring
OWNERSHIP: Unknown
SEC: ,T: 10N ,R: 32E
North: 4291720 East: 381216
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Small pits and trenches
GEOLOGY: A line of prospects follow a N50 degrees W-striking,
vertically-dipping, 2-foot vein in hydrothermally altered ash flow tuff. The
vein consists of quartz stringers and silicified gouge. The stringers have some
pyrite but are otherwise without visible mineralization. Prospects follow this
trend for over a mile.
REMARKS: Poor roads.
SAMPLE SITE: 3690
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Unnamed shaft
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Pilot Cone
OWNERSHIP: Unknown
SEC: 23 ,T: 12N ,R: 31-1/2E
North: 4304911 East: 374435
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A shaft and prospect pits
GEOLOGY: A small shaft and prospect pits on a mineralized, N20 degrees W shear zone in granite. Vein material consists of quartz with copper oxides and sulfides.
REMARKS: Workings are not on the topo map nor is there any references to them.
SAMPLE SITE: 3703
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Unnamed shaft
OTHER NAMES:
MINING DISTRICT: Bovard
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Copper Mtn.
OWNERSHIP: Unknown
SEC: 19 ,T: 11N ,R: 32E
North: 4296311 East: 376528
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Similar shallow prospects covering an area of several square miles.
GEOLOGY: The prospects are in white, mostly unconsolidated, silica-rich ash capped by densely-welded tuff. Many of the associated dumps have silica nodules and quartz stringers, without visible mineralization.
REMARKS: Very few roads to the prospects, all of which look to be old.
SAMPLE SITE: 3689
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Baxter mine
OTHER NAMES: Kaiser mine
MINING DISTRICT: Broken Hills
COUNTY: Mineral
MINERAL COMMODITY(IES): fluorspar
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Broken Hills
OWNERSHIP:
SEC: 25 ,T: 14N ,R: 34E
North: 4322507 East: 404742
PRODUCTION: 50,869 tons, 1928-51; 131,028 tons, 1952-57
HISTORY: First claims located in 1922
DEVELOPMENT: Several inclined shafts, cuts, underground workings, stopes
GEOLOGY: Fluorite veins formed along N20-40E, 50 degree NW-dippng shear zone in kaolinized andesite; zone is laced with hematite/jasper veinlets
REMARKS:
SAMPLE SITE: 4056
REFERENCES: Papke, 1979
EXAMINER: J. V. Tingley
DATE VISITED: June 1, 1989
Attachment:

PROPERTY NAME: Broken Hills mine

OTHER NAMES:

MINING DISTRICT: Broken Hills

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, lead

TYPE OF DEPOSIT: shear zone, breccia

QUAD SHEET: Broken Hills

OWNERSHIP:

SEC: 23 ,T: 14N ,R: 35E

North: 4323101 East: 412683

PRODUCTION:

HISTORY:

DEVELOPMENT: Deep, vertical shaft with open stopes north and south of the shaft, other shafts to the south and southeast, headframe and buildings remain along with large dumps, area southwest of the shaft has been recently trenched

GEOLOGY: Mining was done along a curving, narrow, near-vertical fracture zone in bleached, kaolinized andesite, rock has disseminated pyrite and other sulfides.

The altered zone trends north-south and is 150-200 feet wide, it grades into reddish-tan andesite to the east, this rock is not visibly altered. The most intense alteration is along a wide, E-W trending shear zone that appears to cut the narrow Broken Hills zone. This E-W trend can be seen in several workings to the south of the Broken Hills mine, including the Silver Trailer.

REMARKS: The mine appears to have been worked or at least expored in the last few years, the dumps have been bulldozed and sampled

SAMPLE SITE: 4029

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 5, 1989

Attachment:

PROPERTY NAME: Little Fluorite prospect
OTHER NAMES:
MINING DISTRICT: Broken Hills
COUNTY: Mineral
MINERAL COMMODITY(IES): fluorspar
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Broken Hills
OWNERSHIP:
SEC: 25 ,T: 14N ,R: 34E
North: 4323096 East: 404427
PRODUCTION: none
HISTORY: Property located in 1951
DEVELOPMENT: Shallow, inclined shafts, cuts, trenches
GEOLOGY: Fluorite-cemented breccia along N20E, 45 degree NW-dipping fault zone,
Massive, white, purple, green fluorite band along the fault, wall rock
iron-oxide-stained, fault cuts andesite
REMARKS:
SAMPLE SITE: 4057
REFERENCES: Papke, 1979
EXAMINER: J. V. Tingley
DATE VISITED: June 1, 1989
Attachment:

PROPERTY NAME: Silver Trailer group

OTHER NAMES:

MINING DISTRICT: Broken Hills

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, lead

TYPE OF DEPOSIT: shear zone, breccia

QUAD SHEET: Broken Hills

OWNERSHIP:

SEC: 26 ,T: 14N ,R: 35E

North: 4322232 East: 413151

PRODUCTION:

HISTORY:

DEVELOPMENT: Deep, inclined shaft, connecting, caving shaft, trenches`

GEOLOGY: Stope appears to follow a N60W, vertical breccia in a shear zone, this zone is about 1 foot wide at outcrop. The zone cuts bleached, kaolinized andesite. Outcrops in this area are not good, but prospects extend along the suspected strike of the structure both to the northwest and southeast

REMARKS: This shaft fits the description of the Silver Trailer group described in both Vanderburg and Schrader

SAMPLE SITE: 4030

REFERENCES: Schrader (1947); Vanderberg (1937)

EXAMINER: J. V. Tingley

DATE VISITED: May 5, 1989

Attachment:

PROPERTY NAME: Spardome mine
OTHER NAMES: K-Z mine
MINING DISTRICT: Broken Hills
COUNTY: Mineral
MINERAL COMMODITY(IES): fluorspar
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Broken Hills
OWNERSHIP:
SEC: 2 ,T: 13N ,R: 34E
North: 4320237 East: 403144
PRODUCTION: 248 tons of 60% CaF₂ in 1956-57
HISTORY: Property was located in 1956
DEVELOPMENT: 150-foot shaft, cuts, trenches along trend of shear zone/breccia
GEOLOGY: Vertical shaft was sunk on fluorite-cemented breccia formed along a N20-40E, near-vertical shear zone in rhyolite ash-flow tuff. Shear zone crops out in the saddle NE of the shaft, it is about 600 feet wide here. The fractured surfaces of the shear zone are coated with rinds of dull, brownish hematite/jasper mixture. Wall rock is a lithic-rich, crystal tuff with pumice cavities up to 1 inch across; rock is kaolinized. Breccia on dump is composed of tuff fragments cemented by fluorite; fluorite is mainly clear with some green and purple; large clasts have rind of iron-oxides up to 1/4 inch thick, then coating of fluorite cementing material, is a hydrothermal breccia cemented by fluorite
REMARKS: Headframe remains on property, considerable amount of drill core is scattered about shack near the shaft collar
SAMPLE SITE: 4055
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: June 1, 1989
Attachment:

PROPERTY NAME: Unnamed shaft 1

OTHER NAMES:

MINING DISTRICT: Broken Hills

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, lead

TYPE OF DEPOSIT: shear zone, breccia

QUAD SHEET: Broken Hills

OWNERSHIP:

SEC: 26 ,T: 14N ,R: 35E

North: 4322333 East: 412600

PRODUCTION:

HISTORY:

DEVELOPMENT: Shallow prospect pits and cuts

GEOLOGY: Pits expose silicified stockworks in kaolinized, silicified andesite, rock is dense, laced with both clear and milky white quartz veinlets, some dull white veinlets may be mixture of quartz and alunite, rock is flooded with silica, some silicified breccia fragments contain disseminated pyrite, traces of chalcOPYrite, fractures are coated with dary, cinnamon-brown limonite. A N10E, vertical shear zone is exposed in one cut, it is intersected but not offset by a major N70W to EW-trending shear zone. Gypsum crystals occur on the pit dumps

REMARKS: The wide, N70W to E-W-trending shear zone may extend to the Silver Trailer area to the southeast and to the exposures in the trench just south of the Broken Hills shaft, if so, this structure would be about one half mile wide

SAMPLE SITE: 4031

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 5, 1989

Attachment:

PROPERTY NAME: Unnamed shaft 2

OTHER NAMES:

MINING DISTRICT: Broken Hills

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, lead

TYPE OF DEPOSIT: shear zone, breccia

QUAD SHEET: Broken Hills

OWNERSHIP:

SEC: 26 ,T: 14N ,R: 35E

North: 4322506 East: 412588

PRODUCTION:

HISTORY:

DEVELOPMENT: Inclined shaft in draw, timbered and open, estimated to be about 100 feet deep; pits to southeast and short adit on slope to the northwest

GEOLOGY: Wall rock exposed in the pit east of the shaft is punky, kaolinized andesite, a major, N70W-trending, vertical shear zone is exposed in the pit walls. Lenses of limonite-stained breccia, not cemented, occur along the shear. A N15E striking, 40 degree NW-dipping shear zone intersects the NW zone with no apparent offset along either. Stockworks of limonite-stained fractures cut the rock. Rock on the shaft dump composed of scoriaceous quartz vein/breccia with clots pyrite, jamesonite, galena, and tetrahedrite (?), in addition to quartz, veinlets of pale, yellow-tan earthy mineral cut the breccia--possibly alunite.

REMARKS: This area is roughly on the southern projection of the Broken Hills structure; rock on the dump is similiar to that seen on the main dump at the Broken Hills mine. This shaft and the surrounding workings are not shown on the topo sheet

SAMPLE SITE: 4032

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 5, 1989

Attachment:

PROPERTY NAME: Bruner mine

OTHER NAMES:

MINING DISTRICT: Bruner

COUNTY: Nye

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 13 ,T: 14N ,R: 37E

North: 4324940 East: 433940

PRODUCTION: none

HISTORY:

DEVELOPMENT: Adit, trenches on dump and on hillslope to southwest

GEOLOGY: Portal in kaolinized ash-flow tuff, rock on the dump is kaolinized, iron-oxide stained, silicified breccia, fragments are cemented with quartz, fine-grained pyrite and limonite-after-pyrite casts, free gold in pyrite casts, drusy quartz crystals coat surfaces, some lamellar quartz after calcite noted.

REMARKS:

SAMPLE SITE: 3480

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 11, 1989

Attachment:

PROPERTY NAME: Duluth mine

OTHER NAMES: Golden Eagle mine, Ole Peterson mine, Black Mule claim, cont.

MINING DISTRICT: Bruner

COUNTY: Nye

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 24 ,T: 14N ,R: 37E

North: 4323990 East: 433060

PRODUCTION:

HISTORY:

DEVELOPMENT: Two adits, connected by internal shaft, stopes between and above levels, workings mostly open

GEOLOGY: Rugged outcrops near upper portal silicified rhyolite breccia; east trending drift starts in kaolinized andesite then passes through fault zone into a series of latite flows and ash-flow tuffs. The kaolinized rocks are progressively more intensely brecciated from west to east; adit intersects N20E drift along breccia zone; mining has been done along a sheeted, silicified zone along this structure, lense-like quartz adularia veins with acicular quartz crystals, limonite points and manganese oxide occur along the structure, wall rock for about 40 feet west of the sheeted zone is a mass of rubble composed of boulders of brecciated wall rock-a matrix supported breccia with tan clay between fragments; there is a second sheeted zone to the east of the first. An east-west cross fissure (the Craig fissure) passes between the two main sheeted zones. The Craig fissure has increased manganese oxide coatings and is a more open breccia; values are said to have been up to 0.5 ounces per ton in gold. There is evidence of at least two periods of hydrothermal brecciation, the latest period is an open, matrix-supported breccia with rock flour matrix.

REMARKS: Both breccia zones are intersected by the upper mine workings, the lower drift follows the western breccia zone but the crosscut does not reach the eastern breccia

Newmont Exploration is currently mapping and sampling the property, drilling is planned for later this season.

SAMPLE SITE: 3477, 0402

REFERENCES: Kleinhampl, F.J., and Ziony, J.I., 1984, Mineral resources of northern Nye County, Nevada: Nevada Bureau of Mines and Geology Bulletin 99B; Kral, V.E., 1951, Mineral resources of Nye County, Nevada: Nevada Bureau of Mines and Geology Bulletin 50.

EXAMINER: J. V. Tingley

DATE VISITED: April 11, 1989

Attachment: July claim, Climax claim, Shale claim, Gold Knob claim,, White shaft

PROPERTY NAME: Paymaster mine
OTHER NAMES: Golden Eagle Mining and Milling Co.
MINING DISTRICT: Bruner
COUNTY: Nye
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein, shear zone
QUAD SHEET: Burnt Cabin Summit
OWNERSHIP:
SEC: 14 ,T: 14N ,R: 37E
North: 4325330 East: 432760
PRODUCTION: Small
HISTORY: Part of Kansas City-Nevada Consolidated Mines Co. in 1922
DEVELOPMENT: Top of small hill has been benched, connections with underground workings have been obliterated; last mining was an attempt at in situ cyanide leaching, solution was pumped to top of hill into small trench--solution recovery method not clear
GEOLOGY: Rock exposed in the open pit is a loose, fragment-supported breccia that cuts older, silicified rhyolite breccia. The breccia contains fragments of silicified tuff and chalcedonic quartz. The pit at Paymaster trends N10E but some structures trend N10W. Some tuff fragments show NW banding.
REMARKS:
SAMPLE SITE: 3478, 0401
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 11, 1989
Attachment:

PROPERTY NAME: Penelas mine

OTHER NAMES:

MINING DISTRICT: Bruner

COUNTY: Nye

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 24 ,T: 14N ,R: 37N

North: 4323760 East: 433620

PRODUCTION: 69,000 tons 1936-40

HISTORY:

DEVELOPMENT: 1000-foot, inclined shaft and extensive underground workings; surface trenches, large caved area probably around shaft collar--open stopes

GEOLOGY: Rock on shaft dump is mainly silicified rhyolite tuff breccia, quartz cemented, clear quartz crystals line vugs. On the saddle north of the old workings, a N20E shear zone cuts breccia outcrops, the zone is about 200 feet wide, has been bleached; some flaggy tuff is exposed in the trench, it displays crackle breccia. Sugary adularia crystals coat some vugs in the breccia.

REMARKS:

SAMPLE SITE: 3481, 0403

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 11, 1989

Attachment:

PROPERTY NAME: Unnamed Shaft No. 1

OTHER NAMES:

MINING DISTRICT: Bruner

COUNTY: Nye

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 13 ,T: 14N ,R: 37E

North: 4326030 East: 433360

PRODUCTION:

HISTORY:

DEVELOPMENT: Vertical shaft, about 40 feet deep, second shaft to south

GEOLOGY: Shaft was sunk on N40W, 75 degree NE-dipping shear zone in silicified breccia. Rough, rugged outcrop marks the zone, rock silicified latite has biotite books now altered to chlorite. Some NW-trending structures also visible, Rock has drusy quartz crystals coating fracture surfaces, veins of red jasper cut silicified latite. Multiple stages of hydrothermal brecciation present.

REMARKS:

SAMPLE SITE: 3479

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 11, 1989

Attachment:

PROPERTY NAME: Boo claims
OTHER NAMES: Curley barite prospect, A10
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): barite, copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Ghost Dance Ridge
OWNERSHIP:
SEC: 29 ,T: 11N ,R: 30E
North: 4294428 East: 359935
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Two adits, one shaft, one incline, and many prospect pits
GEOLOGY: The workings explore a 6-foot-thick, N20W-striking, irregular-dipping vein of barite in metasedimentary rocks; some stringers of copper-stained barite.
REMARKS: Just south of Gillis Canyon road
SAMPLE SITE: 3684
REFERENCES: Archbold, N.L., 1966, field examination, NBMG files.
EXAMINER: Jack Quade
DATE VISITED: May 16, 1989
Attachment:

PROPERTY NAME: Buckley mine
OTHER NAMES: Myrtle Claims
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Ryan Canyon
OWNERSHIP: Atlas Precious Metals Inc. (1988), 395 Freeport, Reno, NV
SEC: ,T: 10N ,R: 31E
North: 4288059 East: 366796
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Three adits, one shaft, and prospects; road building and drilling recently.
GEOLOGY: A major, N10 degrees W-striking, 80 degrees SW-dipping contact between granite and lime shales. Vein is dominately in granite, with minor gossan near south shaft. Dumps covered with both alaskite and vuggy, iron-stained quartz containing fine-grained pyrite. Some of the ore may have been shipped.
REMARKS: More workings than shown on maps, not all new.
SAMPLE SITE: 3680
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Centipede mine

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver(?)

TYPE OF DEPOSIT: Vein

QUAD SHEET: Hu-Pwi Wash

OWNERSHIP:

SEC: 18 ,T: 12N ,R: 31E

North: 4306940 East: 364397

PRODUCTION: Probably none

HISTORY:

DEVELOPMENT: Nothing except underground workings.

GEOLOGY: Three inclined adits along N 70 E trend. Lower adit is probably several hundred feet long and appears to be in fresh granite along quartz vein. Hill above workings is capped by columnar basalt. Middle workings and those highest on hill are also in fresh granite where it contains quartz veins. Quartz is concentrated along NNE shears that dip greatly eastward and workings follows these shears. Some pyrite (mostly oxidized) is seen in the quartz, and pyrite content appears greatest in lowest workings. Quartz itself is milky and massive to vuggy. Quartz veins are probably not more than a foot wide.

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: N.L. Archbold

DATE VISITED: March 17, 1966

Attachment:

PROPERTY NAME: Gravity barite mine
OTHER NAMES: Lakeview, Arlinda, Lucy
MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): barite

TYPE OF DEPOSIT: Vein

QUAD SHEET: Ghost Dance Ridge

OWNERSHIP:

SEC: ,T: ,R:

North: 4292081 East: 360392

PRODUCTION: Small

HISTORY:

DEVELOPMENT:

GEOLOGY: Barite veins cut silicified rhyolite tuff of the Excelsior Formation where it forms the upper plate of the Gillis thrust fault. The barite veins form discontinuous units that strike about N 40 degrees W and dip 65 degrees NW; maximum vein width is about 6 feet. The barite is associated with minor amounts of quartz, calcite, and traces of galena, and secondary copper minerals.

REMARKS:

SAMPLE SITE:

REFERENCES: Archbold, N.C., 1966, NBMG Report 14, pg. 16.

EXAMINER:

DATE VISITED:

Attachment:

PROPERTY NAME: Malapais claims
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Ryan Canyon
OWNERSHIP: Unknown
SEC: 12 ,T: 9N ,R: 30E
North: 4279472 East: 362660
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Incline, trenching and prospects.
GEOLOGY: A shallow incline sunk on a 4-foot vein bearing N50 degrees E and dipping 55 degrees NW follows the dip slope. The vein is hosted in granite and consists of gouge and about 12" of quartz. Trenching follows the strike of the vein to the northwest.
REMARKS: Very poor road north of the rail crossing
SAMPLE SITE: 3674
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Mina Mae mine

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver(?)

TYPE OF DEPOSIT: Vein

QUAD SHEET: Gillis Canyon NW

OWNERSHIP:

SEC: 13 ,T: 12N ,R: 29E

North: 4307529 East: 354020

PRODUCTION: Probably worked for gold-silver but may not have had any production.

HISTORY: Dated material on property indicates activity in period 1928-1948

DEVELOPMENT: Old cabin and rather extensive underground workings.

GEOLOGY: East-west brecciated quartz vein in "Excelsior" formation - overlain by Tertiary volcanic rocks. Vein is exposed and worked for several hundred feet along strike.

REMARKS:

SAMPLE SITE:

REFERENCES: NBMG files

EXAMINER: N.L. Archbold

DATE VISITED: March 16, 1966

Attachment:

PROPERTY NAME: Prospect Al
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver(?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Ghost Dance Ridge
OWNERSHIP:
SEC: 5 ,T: 10.5 ,R: 31E
North: 4292350 East: 368671
PRODUCTION: None
HISTORY:
DEVELOPMENT: Shaft
GEOLOGY: Shaft sunk on quartz veins in weathered granite; no significant metallization.
REMARKS:
SAMPLE SITE:
REFERENCES: NBMG files
EXAMINER: N.L. Archbold
DATE VISITED: 1966
Attachment:

PROPERTY NAME: Prospect All
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: vein
QUAD SHEET: Ghost Dance Ridge
OWNERSHIP:
SEC: 28 ,T: 11N ,R: 30E
North: 4294842 East: 361229
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: adits, shaft, open cut
GEOLOGY: Workings follow vein in shear zone in Mesozoic metavolcanic rocks; metavolcanic rocks contain disseminated pyrite, are overlain by Tertiary volcanic rocks about 100 to 150 feet above the canyon bottom. The shear zone strikes N70W, cuts partially hydrothermally-altered, iron-stained, dark gray tuff. The vein material contains some fine-grained pyrite in quartz along with silicified gouge.
REMARKS: On the east side of Gillis Canyon
SAMPLE SITE: 3683
REFERENCES: Archbold, N.L., 1965, field examination, NBMG files.
EXAMINER: Jack Quade
DATE VISITED: May 16, 1989
Attachment:

PROPERTY NAME: Prospect A12
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Gillis Canyon
OWNERSHIP:
SEC: 29 ,T: 11N ,R: 30E
North: 4294568 East: 358816
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: shafts and adits; no new work
GEOLOGY: Narrow, copper-oxide-stained, quartz-calcite veins and stringers cut
Triassic meta-andesite. About 100 feet north of the old workings, a sheared,
brecciated, bleached body of rock, possibly a rhyolitic intrusive cuts the
meta-andesite.
REMARKS: Prospect is on the edge of the Indian Reservation
SAMPLE SITE: 3685
REFERENCES: Archbold, N.L., 1966, field examination, NBMG files.
EXAMINER: Jack Quade
DATE VISITED: May 16, 1989
Attachment:

PROPERTY NAME: Prospect A13
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT:
QUAD SHEET: Gillis Canyon
OWNERSHIP:
SEC: 7 ,T: 11N ,R: 30E
North: 4299370 East: 358558
PRODUCTION: Probably no production
HISTORY:
DEVELOPMENT: Prospect and shallow shaft with other scattered prospect pits in the area.
GEOLOGY: Secondary Cu minerals in limey shale and tactite. Beds strike N 10 degrees E, dip 70 degrees E. Granite contact a few hundred feet to the north. Small granite knobs intruding the sedimentary rocks.
REMARKS:
SAMPLE SITE:
REFERENCES:
EXAMINER: N.L. Archbold
DATE VISITED: March 16, 1966
Attachment:

PROPERTY NAME: Prospect A14

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): copper, tungsten(?)

TYPE OF DEPOSIT: Contact

QUAD SHEET: Gillis Canyon

OWNERSHIP:

SEC: 18 ,T: 11N ,R: 30E

North: 4299342 East: 357348

PRODUCTION:

HISTORY:

DEVELOPMENT:

GEOLOGY: Short adits in tactite at granite/limestone contact. Some Cu stain. Probably also contains some scheelite. Tactite zone appears to be only 2'-3' wide and is nearly vertical.

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: N.L. Archbold

DATE VISITED: March 16, 1966

Attachment:

PROPERTY NAME: Prospect A15

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): copper, tungsten(?)

TYPE OF DEPOSIT: Contact

QUAD SHEET: Gillis Canyon

OWNERSHIP:

SEC: 18 ,T: 11N ,R: 30E

North: 4299262 East: 356670

PRODUCTION:

HISTORY:

DEVELOPMENT: Three shallow shafts with some open cuts near collar.

GEOLOGY: Discontinuous tactite and jasperoid masses in limestone 200-500 ft. south of contact with granite. (1) Shaft farthest north has jasperoid and secondary Cu minerals on dump with gossan material that appears derived from pyrite. Gossan cannot be traced away from shaft. (2) Central workings are short adit with open cut and winze inclined about 50 degrees N. Gossan material contains more Cu stain but it is in discontinuous lenses up to 10 ft. long. (3) Conditions at southern shaft are similar to other two but there is little gossan at collar and none extends away from the shaft. No tactites observed in the shafts.

REMARKS: Similar prospects occur about 1/4 mile to the south.

SAMPLE SITE:

REFERENCES:

EXAMINER: N.L. Archbold

DATE VISITED: March 16, 1966

Attachment:

PROPERTY NAME: Prospect A2
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver(?)
TYPE OF DEPOSIT: Vein
QUAD SHEET: Ghost Dance Ridge
OWNERSHIP:
SEC: 5 ,T: 10.5 ,R: 31E
North: 4292109 East: 368856
PRODUCTION: None
HISTORY:
DEVELOPMENT: Prospect pit
GEOLOGY: Altered volcanic rock; no significant metallization
REMARKS:
SAMPLE SITE:
REFERENCES: NBMG files
EXAMINER: N.L. Archbold
DATE VISITED: 1966
Attachment:

PROPERTY NAME: Prospect A20
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, tungsten(?)
TYPE OF DEPOSIT: Contact
QUAD SHEET: Hu-Pwi Wash
OWNERSHIP:
SEC: ,T: ,R:
North: 4307729 East: 364498
PRODUCTION: None
HISTORY:
DEVELOPMENT: Minor bulldozer work
GEOLOGY: Tactite mass in or against granite and overlain by Tertiary volcanic
rocks; extent of tactite unknown.
REMARKS:
SAMPLE SITE:
REFERENCES: NBMG files
EXAMINER: N.L. Archbold
DATE VISITED: 1966
Attachment:

PROPERTY NAME: Prospect A3
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver(?)
TYPE OF DEPOSIT: Shear zone
QUAD SHEET: Ghost Dance Ridge
OWNERSHIP:
SEC: 13 ,T: 11N ,R: 31E
North: 4298780 East: 366592
PRODUCTION: None
HISTORY:
DEVELOPMENT: Two adits
GEOLOGY: Workings explore a N 20 degrees E-striking shear zone in
Triassic-Jurassic meta-andesite overlain by Tertiary ignimbrite
REMARKS: Lower adit starts in ignimbrite
SAMPLE SITE:
REFERENCES: NBMG files
EXAMINER: N.L. Archbold
DATE VISITED: 1966
Attachment:

PROPERTY NAME: Prospect A4

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver(?)

TYPE OF DEPOSIT:

QUAD SHEET: Ghost Dance Ridge

OWNERSHIP:

SEC: 24 ,T: 11N ,R: 31E

North: 4297433 East: 366600

PRODUCTION: None

HISTORY:

DEVELOPMENT: None

GEOLOGY: Minor shear zone in Triassic-Jurassic metamorphic rocks

REMARKS: Nothing of importance

SAMPLE SITE:

REFERENCES: NBMG files

EXAMINER: N.L. Archbold

DATE VISITED: 1966

Attachment:

PROPERTY NAME: Prospect A7

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver, copper, lead

TYPE OF DEPOSIT: Vein

QUAD SHEET: Ghost Dance Ridge

OWNERSHIP:

SEC: 29 ,T: 11N ,R: 30E

North: 4294706 East: 360000

PRODUCTION:

HISTORY:

DEVELOPMENT: Size of dump indicates perhaps 200' of underground drifting, portal of adit caved.

GEOLOGY: Country rock is highly sheared and altered Mesozoic(?) rhyolite that has been assigned to the "Excelsior" formation. This is unconformably overlain by Tertiary volcanics on the upper canyon walls. Dump material contains vein calcite with small amounts of chalcopyrite, galena, and sphalerite.

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: N.L. Archbold

DATE VISITED: March 16, 1966

Attachment:

PROPERTY NAME: Prospect A8

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver(?)

TYPE OF DEPOSIT: Vein

QUAD SHEET: Ghost Dance Ridge

OWNERSHIP:

SEC: 28 ,T: 11N ,R: 30E

North: 4294617 East: 360538

PRODUCTION:

HISTORY:

DEVELOPMENT: Adit is caved but dump indicates about 100' of tunnel.

GEOLOGY: Brecciated quartz vein material about 2 ft. wide strikes 130 degree, dips 70 degrees S. Host rock is silicified meta-andesite or possibly rhyolite occurring as a plug or dike. Vein follows highly bleached and altered shear zone. Adit is caved but dump contains much silicified material with no apparent metallization. Darker meta-andesites away from immediate area contain disseminated pyrite.

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: N.L. Archbold

DATE VISITED: March 16, 1966

Attachment:

PROPERTY NAME: Red Granite mine

OTHER NAMES:

MINING DISTRICT: Buckley

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver(?)

TYPE OF DEPOSIT:

QUAD SHEET: Hu-Pwi Wash

OWNERSHIP:

SEC: 3 ,T: 12N ,R: 30E

North: 4310842 East: 359475

PRODUCTION:

HISTORY:

DEVELOPMENT: I estimate 100' of underground work.

GEOLOGY: Shear zone is weakly sericitized granite shear strikes about north-south and dips 30 degrees E at portal of incline. Dump shows vein quartz with pyrite and limonite. Grab sample shows nil Au and Ag. No ore minerals noted.

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: N.L. Archbold

DATE VISITED: March 17, 1966

Attachment:

PROPERTY NAME: Silver Bell mine
OTHER NAMES: Prospect A5
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, lead, molybdenum
TYPE OF DEPOSIT: vein
QUAD SHEET: Ghost Dance Ridge
OWNERSHIP: Ralph C. Phillips (1966)
SEC: ,T: 10.5N ,R: 30E
North: 4292377 East: 361086
PRODUCTION: None recorded, some ore appears to have been shipped from loading dock
HISTORY: unknown, appears to be old
DEVELOPMENT: adits, pits, old cabin
GEOLOGY: Calcite, siderite, galena occur in vein hosted in dark grey volcanic rock of Triassic Excelsior Formation; mineralization occurs below Gillis thrust fault. Vein material seen on old loading dock consists mainly of calcite, siderite, and some galena in replacement ore.
REMARKS:
SAMPLE SITE: 3682
REFERENCES: Archbold, N. L., 1966, Report of field examination, NBMG files
EXAMINER: Jack Quade
DATE VISITED: May 16, 1989
Attachment:

PROPERTY NAME: Unnamed adits and shaft
OTHER NAMES:
MINING DISTRICT: Buckley
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Ryan Canyon
OWNERSHIP: Unknown
SEC: 25 ,T: 10N ,R: 30E
North: 4284849 East: 362602
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and shaft, remnants of cabin, and prospects.
GEOLOGY: A line of prospects, a shaft, and a cross-cut adit explore a N25 degree
W-striking shear in dark-gray volcanics, with both calcite and silica as gouge
in the vein material. Copper was the only visible mineralization.
REMARKS: Poor, almost non-existent, roads from the north.
SAMPLE SITE: 3681
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Aqua claim
OTHER NAMES: BC #3 claim
MINING DISTRICT: Buckskin
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Veins
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 7 ,T: 13N ,R: 24E
North: 4319917 East: 296846
PRODUCTION: Unknown
HISTORY: Area of older workings with recent trenches and dozer-cuts.
DEVELOPMENT: Shafts, trenches, prospects and dozer-cuts.
GEOLOGY: Area of intense hydrothermal alteration of meta-sediments of Jurassic-Triassic age. Shallow shafts adjacent to outcrops of chert surrounded by argillic alteration. Veins consist of quartz with gray-black wisps of pyrite.
REMARKS: Vein exposures have been extensively prospected by bulldozing.
SAMPLE SITE: 4426
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: B.C. claims
OTHER NAMES: Nev claims
MINING DISTRICT: Buckskin
COUNTY: Douglas
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 13 ,T: 13N ,R: 23E
North: 4318998 East: 296231
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and shaft
GEOLOGY: A shallow shaft and adit sunk on a N 80 degrees W-striking shear in dark-gray, fine-grained metasediments. Local areas of intense alteration. Sample 4427 selected from dumps included quartz and replaced sediments with minor copper sulfides and pyrite.
REMARKS:
SAMPLE SITE: 4427
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Bar claims
OTHER NAMES:
MINING DISTRICT: Buckskin
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein, breccia, replacement
QUAD SHEET: Artesia Lake
OWNERSHIP: Unknown
SEC: 13 ,T: 13N ,R: 23E
North: 4317430 East: 295991
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A line of cross-cut adits
GEOLOGY: The cross-cut adits are perpendicular to contact of phyllite and other metasediments. The contact bears N 55 degrees W and contains quartz and breccia with minor pyrite.
REMARKS:
SAMPLE SITE: 4428
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Blue Danube mine

OTHER NAMES:

MINING DISTRICT: Buckskin

COUNTY: Douglas

MINERAL COMMODITY(IES): corundum, andalusite

TYPE OF DEPOSIT: metamorphic, disseminated (?)

QUAD SHEET: Pine Nut Valley

OWNERSHIP: Unknown

SEC: 14 ,T: 13N ,R: 23E

North: 4317577 East: 294012

PRODUCTION: None reported

HISTORY: Bureau of Mines did some exploratory and laboratory work on the deposit in 1945-46 but nothing has been done since.

DEVELOPMENT: Shaft

GEOLOGY: The deposit is hosted in weakly-metamorphosed Mesozoic andesite intruded by lamprophyre dikes. The andesite showed widespread silicification and sericitization. Corundum-andalusite occur as scattered bodies with the main shear zone but are confined to a zone measuring 50-75 feet on the surface. The main shear strikes N 25 degrees - 30 degrees E and dips steeply to the northwest.

REMARKS: Test of the outcrop material were very promising but a test from a 70 foot shaft beneath the outcrop proved the material did not carry to depth. For a detailed account refer to Moore, 1969.

SAMPLE SITE: 4429

REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby, Counties, Nevada; NBMG Bull 75.

EXAMINER: Jack Quade

DATE VISITED: 7-12-89

Attachment:

PROPERTY NAME: Minnesota mine
OTHER NAMES:
MINING DISTRICT: Buckskin
COUNTY: Douglas
MINERAL COMMODITY(IES): iron, gold, copper
TYPE OF DEPOSIT: Veins and replacement
QUAD SHEET: Lincoln Flat
OWNERSHIP: Standard Slag Co.
SEC: ,T: 14N ,R: 24E
North: 4326796 East: 298061
PRODUCTION: The total production value reported is \$16,736,000
HISTORY: Large scale operation was started in 1944 and stopped in 1971. The future of the mine as a potential porphyry copper deposit is probably more a matter of economics than mineralization since it has already been determined to be a low grade copper deposit.
DEVELOPMENT: Large-scale building and plant facilities, asphalt road that connects the mine to the rail connection at Wabuska, and electricity.
GEOLOGY: The regional geology at the mine was taken from Moore, J., 1969 as follows; The mine is in Triassic and Jurassic metasedimentary and metavolcanic rocks which have been intruded by granodiorite and quartz monzonite porphyry. The magnetite orebody is a contact pyrometasomatic deposit consisting of massive magnetite with 5-10% pyrite and some garnet, epidote, and chalcopyrite replacing a thick, steeply-dipping horizon in Triassic dolomites intruded by a pyritic quartz monzonite porphyry. Adjacent beds are altered to calc-silicate minerals. The iron ore averages 0.07% copper. In the west wall of the pit, flat-lying quartz veinlets and vertical northwesterly veinlets contain disseminated chalcopyrite and a little molybdenite.
REMARKS:
SAMPLE SITE: 4424
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby, Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Section 11 shafts and prospects
OTHER NAMES:
MINING DISTRICT: Buckskin
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 11 ,T: 14N ,R: 23E
North: 4330190 East: 294929
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Several shafts, one adit, and five prospect pits.
GEOLOGY: The lower, major incline was sunk on a N 70 degrees E-striking shear zone in meta-volcanics. The 2-foot vein is nearly vertical and consists of gouge and minor quartz.
REMARKS: Sample 4422 was taken from the exposed vein near the big shaft.
SAMPLE SITE: 4422
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Section 12 shafts and prospects

OTHER NAMES:

MINING DISTRICT: Buckskin

COUNTY: Lyon

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Contact

QUAD SHEET: Lincoln Flat

OWNERSHIP: Unknown

SEC: 12 ,T: 14N ,R: 23E

North: 4329382 East: 296653

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Two shafts and minor prospects

GEOLOGY: Two very old shafts on a n 75 degrees W-striking structure; the eastern shaft is in limestone and the western shaft is in andesite. The structure is small and the workings are shallow. The structure contains very little material other than silicified gouge and mylonite.

REMARKS:

SAMPLE SITE: 4423

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 7-12-89

Attachment:

PROPERTY NAME: Section 8 inclines
OTHER NAMES:
MINING DISTRICT: Buckskin
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Lincoln Flat
OWNERSHIP: Unknown
SEC: 8 ,T: 13N ,R: 24E
North: 4320130 East: 299024
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Inclines, adits and prospects
GEOLOGY: The major incline was sunk of a N 15 degrees W-striking structure in altered and bleached rhyolite tuff of Tertiary age. The structure is up to 3 feet wide and contains silicified gouge and minor quartz stringers.
REMARKS: Sample 4420 was taken from very limited vein material on the dumps.
SAMPLE SITE: 4420
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-12-89
Attachment:

PROPERTY NAME: Unnamed adit

OTHER NAMES:

MINING DISTRICT: Buckskin

COUNTY: Douglas

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Lincoln Flat

OWNERSHIP: Unknown

SEC: 1 ,T: 13N ,R: 24E

North: 4321894 East: 296988

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Adit

GEOLOGY: A small caved adit follows the N 10 degrees W strike of a narrow silicified vein hosted in intensely altered Hartford Hill Rhyolite.

REMARKS: Workings are in the middle of about one square mile of older workings that have been cut-up with roads and drill pads sometime within the last 5 years.

SAMPLE SITE: 4425

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 7-12-89

Attachment:

PROPERTY NAME: Blue Star #2 claim
OTHER NAMES:
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Belleville
OWNERSHIP: Gus Castagonola, P.O. Box 272, Mina Nevada
SEC: ,T: 4N ,R: 32E
North: 4230746 East: 394126
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and dozer-cut.
GEOLOGY: A S55 degree W-striking, 3 foot wide vein in gray, fine-grained shales follows a shear in contact with a granite. The dozer-cut is a glory hole below the older adit.
REMARKS:
SAMPLE SITE: 3573
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-18-89
Attachment:

PROPERTY NAME: Giroux mine
OTHER NAMES:
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): barite
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Belleville
OWNERSHIP: Unknown
SEC: 8 ,T: 3N ,R: 34E
North: 4221484 East: 393347
PRODUCTION: Some
HISTORY: Paper dates from 1984
DEVELOPMENT: Glory hole and roads considerable material removed
GEOLOGY: Fairly large 100 x 40 feet open pit oriented E-W and adits as well as numerous pits and trenches, hosted in chert of Ordovician age. Some ore is stock piled but large volume of material has been removed. Sample 3569 was taken from an outcrop adjacent to the open pit from what appears to be part of the older workings. The outcrop consisted of a manganese-oxide-stained, silicified breccia, that was under-cut by older workings.
REMARKS:
SAMPLE SITE: 3568, 3569
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-18-89
Attachment:

PROPERTY NAME: Kelly and Clark mine
OTHER NAMES:
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, lead
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Miller Mountain
OWNERSHIP: Unknown
SEC: 16 ,T: 2N ,R: 34E
North: 4209879 East: 394895
PRODUCTION: Loading facilities but no production records.
HISTORY: Unknown
DEVELOPMENT: Old inclined shaft, four adits.
GEOLOGY: A 6-foot, gossan-like vein near the surface, bears N 65 degrees E, dipping irregular, along a shear between limestone and thin, platy, light-tan shale. Vein consists of light-brown, calcite, massive galena and proussite; parts of the vein are highly silicified and contain galena, and silver sulfides. All of the vein appears to be oxidized and iron-stained. Gold was not observed but is reported to be present.
REMARKS: Roads are steep and almost impassable.
SAMPLE SITE: 3735
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Noquez #2 claim
OTHER NAMES: Parker Mining Corp.
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): barite
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Miller Mountain
OWNERSHIP: Parker Mining Corp. (1987)
SEC: ,T: 3N ,R: 34E
North: 4218446 East: 395330
PRODUCTION: Unknown but some
HISTORY: Unknown
DEVELOPMENT: 100 x 75 x 40 foot pit
GEOLOGY: Open pit in black, thin-bedded limestones of the Luning Formation. Some ore stock piled on a pad in front of pit but a larger portion of the material mined has been shipped, so there has been some production. The barite appears to have formed pods of replacement ore and replaced some of the limestone along bedding planes.
The last owner and probable period of production was the Parker Mining Corp., in 1987. There appears to have been no activity since. Sample 3570 was from the stock pile.
REMARKS:
SAMPLE SITE: 3570
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-18-89
Attachment:

PROPERTY NAME: Noquez (Columbus) mine

OTHER NAMES: Noquez

MINING DISTRICT: Candelaria

COUNTY: Mineral

MINERAL COMMODITY(IES): barite

TYPE OF DEPOSIT: Bedded; contact

QUAD SHEET: Miller Mountain

OWNERSHIP:

SEC: ,T: ,R:

North: 4217795 East: 396672

PRODUCTION: Some, thought to have occurred in 1987

HISTORY: Unknown but there may have been some production prior to the mining of barite. The older incline apparently produced some contact mineralization prior to the barite production.

DEVELOPMENT: An incline, several adits, numerous small open pits, prospects, and trenches...hoist house intact...and loading facilities.

GEOLOGY: The largest workings follow a N20 degree W-striking, irregular dipping contact zone in dark, thin-bedded, limey shales and chert near a contact. The deposit appears to have been bedded barite, although some of the ore may have been produced from pods. The barite operation appears to have been superimposed on an older underground operation.

REMARKS:

SAMPLE SITE: 3571

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-18-89

Attachment:

PROPERTY NAME: Prospect pit
OTHER NAMES:
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): silver(?)
TYPE OF DEPOSIT: Quartz vein in shear
QUAD SHEET: Candelaria
OWNERSHIP: Unknown
SEC: ,T: 3N ,R: 35E
North: 4222477 East: 402488
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Pit about 30 x 10 feet
GEOLOGY: From a fault along a contact between the Candelaria Formation and a limestone of Ordovician age, bearing N30 degree E. Sample was taken contact zone consisting of quartz stringer and quartz breccia with fine-grained pyrite.
REMARKS:
SAMPLE SITE: 3566
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-17-89
Attachment:

PROPERTY NAME: Section 16 prospects
OTHER NAMES:
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): turquoise
TYPE OF DEPOSIT: vein and nodule turquoise
QUAD SHEET: Miller Mountain
OWNERSHIP: Unknown
SEC: 16 ,T: 3N ,R: 39E
North: 4219760 East: 395548
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small pits and trenches
GEOLOGY: Workings are along narrow veins in highly-broken and folded, black, thin-bedded shales, with minor copper oxide mineralization. The bedding is close to vertical and the copper mineralization largely coats the fractures and bedding planes of the shale. Material appears to have been sorted for turquoise.
REMARKS:
SAMPLE SITE: 3572
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-18-89
Attachment:

PROPERTY NAME: Silver Star claim (?)
OTHER NAMES:
MINING DISTRICT: Candelaria
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury, barite
TYPE OF DEPOSIT: replacement; disseminated
QUAD SHEET: Belleville
OWNERSHIP:
SEC: 8 ,T: 3N ,R: 34E
North: 4222638 East: 393777
PRODUCTION: Unknown
HISTORY: Unknown but old
DEVELOPMENT: A single shaft and minor prospect
GEOLOGY: Shale, chert and limestone of Ordovician age, and a major east-west structure. Workings are medium in size and old but neither the geology or the description of the workings fits the Giroux as shown on the map. Sample 3567 from the dump is a highly silicified and partly chertified material with cinnabar, pyrite and possible barite in the matrix.
REMARKS:
SAMPLE SITE: 3567
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-17-89
Attachment:

PROPERTY NAME: North Carson mine
OTHER NAMES: Carson mine
MINING DISTRICT: Carson City
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver, copper, tungsten
TYPE OF DEPOSIT: vein; skarn
QUAD SHEET: Carson City
OWNERSHIP: Unknown
SEC: 32 ,T: 16N ,R: 20E
North: 4343276 East: 261205
PRODUCTION: Reported to be less than \$10,000
HISTORY: The mine was operational and equipped with hoisting machinery in 1876.
Some production of copper, lead and silver ore in 1925.
DEVELOPMENT: Several shafts and adit.
GEOLOGY: Workings were sunk, or driven, in granodiorite near contact with schist
of Triassic-Jurassic age. There is very little skarn and no visible scheelite.
Mineralization consists of quartz veins with copper sulfide, galena, and
probable silver-antimony sulfides. Shafts are caved and main crosscut adit has a
locked steel door.
REMARKS: Just north of Carson City.
SAMPLE SITE: 3648
REFERENCES: Overton, T.D., Mineral Resources of Douglas, Ormsby, Washoe
Counties, NBMG Bull 46, Dec. 1947
EXAMINER: Jack Quade
DATE VISITED: 5-10-89
Attachment:

PROPERTY NAME: Unnamed prospect pits
OTHER NAMES:
MINING DISTRICT: Carson City
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Carson City
OWNERSHIP: Unknown
SEC: 29 ,T: 16N ,R: 20E
North: 4344209 East: 262175
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospects
GEOLOGY: Numerous prospects in this area explore fissures in metasediments that are underlain by granitic intrusives. Most of the fissures have some copper mineralization. This particular prospect is on a copper-mineralized fissure in shaley metasediments bearing N 60 degrees W near a contact with granite-aplite.
REMARKS: Fire-brake roads to older prospects.
SAMPLE SITE: 3649
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-19-89
Attachment:

PROPERTY NAME: All-Lite aggregate quarry

OTHER NAMES:

MINING DISTRICT: Castle Peak

COUNTY: Storey

MINERAL COMMODITY(IES): rhyolite

TYPE OF DEPOSIT: rhyolite plug

QUAD SHEET: Chalk Hills

OWNERSHIP: Storey County Properties

SEC: 34 ,T: 19N ,R: 21E

North: 4372240 East: 274950

PRODUCTION: Production began in late 1988, has been continuous since then; approximately 200,000 ton produced to date

HISTORY:

DEVELOPMENT: Access to All-Lite aggregates' new crushing plant is over several miles of new and improved roads, about 4 miles south of Lockwood. A power plant, 105-foot scale, 50,000 gallon fuel and water storage, and a 230-foot well make up some of the supporting facilities.

GEOLOGY: The eleven-million-year-old rhyolite intrusive forms a dome-like structure rising approximately 700 feet above its contact with the older, altered Alta Andesite and is exposed for over 5000 feet east-west, and 5500 feet north-south. The exposed rhyolite mass is estimated to be in excess of 1 billion tons. The homogenous rhyolite is uniformly light-gray, highly flow-banded, and exhibits only minor pumaceous and perlitic phases near its contacts with the older rocks.

REMARKS: The aggregate has been subjected to extensive testing by local engineering labs and has been approved by the Nevada Department of Transportation for general use on highways and bridges.

All-Lite aggregate is presently operating a crushing and quarrying operation on the northeast side of Washington Hill which supplies road aggregate and cement aggregate to the Reno market.

SAMPLE SITE: 4451

REFERENCES: NBMG Bulletin 70

EXAMINER: Jack Quade

DATE VISITED: December 12, 1989

Attachment:

PROPERTY NAME: Castle Peak mine

OTHER NAMES:

MINING DISTRICT: Castle Peak

COUNTY: Storey

MINERAL COMMODITY(IES): mercury

TYPE OF DEPOSIT: quartz-alunite vein

QUAD SHEET: Steamboat

OWNERSHIP: Unknown

SEC: 20 ,T: 18N ,R: 21E

North: 4365303 East: 271894

PRODUCTION: Reported to be 2576 flasks by end of 1943

HISTORY: Discovered in 1927, worked until late 1943.

DEVELOPMENT: Reported to be over 3000 feet of underground workings, three levels and several sublevels, a 100 x 65 x 35 open pit, and three relatively shallow shafts. Part of the underground is still accessible. Most of the retort still there.

GEOLOGY: The workings are entirely within altered andesite of the Alta Formation which have been converted to alunite and in part argillized. The alunite forms the outcrops locally. Two types of ore bodies were reported; the first and most productive were pipelike and occurred along intersections of steeply dipping joints. I sampled this N60 degree E joint from an incline above a large stope, which can be entered from the northside of the glory hole. Cinnabar occurs as clusters of red crystals disseminated through the gouge and into the wall rock. The sample 3564 also included irregular streaks of gypsum. The second Sample 3565 came from a silicified breccia with minor pyrite and gypsum and was associated with an adit that crosscut a north-trending fault.

REMARKS:

SAMPLE SITE: 3564, 3565

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-17-89

Attachment:

PROPERTY NAME: Road cut prospect

OTHER NAMES:

MINING DISTRICT: Castle Peak

COUNTY: Storey

MINERAL COMMODITY(IES): gold, silver(?)

TYPE OF DEPOSIT: vein

QUAD SHEET: Chalk Hills

OWNERSHIP: Storey County Properties

SEC: 27 ,T: 19N ,R: 21E

North: 4372903 East: 274425

PRODUCTION: None

HISTORY: Exposed in recent road cut.

DEVELOPMENT: Dozer cut

GEOLOGY: An 18 foot wide, N5 degree E-striking, 70 degree E-dipping vein of quartz alunite is exposed in a recent road cut. The vein is bleached white inside and entirely altered to alunite...within the vein are quartz breccia in a matrix of fine grained pyrite and other stringers of quartz with sulfides. The host rock is altered Alta Andesite.

REMARKS:

SAMPLE SITE: 3561

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-17-89

Attachment:

PROPERTY NAME: Santa Fe prospect

OTHER NAMES:

MINING DISTRICT: Castle Peak

COUNTY: Storey

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Vein

QUAD SHEET: Steamboat

OWNERSHIP: Storey County Properties (owner) Santa Fe Mining, the Lessor.

SEC: 28 ,T: 19N ,R: 21E

North: 4373276 East: 272910

PRODUCTION: None

HISTORY:

DEVELOPMENT: A series of roads and drill sites cover about 5 square miles.

GEOLOGY: Santa Fe is looking for a Goldfield type deposit related to the later phases of hydrothermal alteration. Sample 3562 was from one of the exposed veins near a drill site, where a N65 degree W vein was exposed within a dozer cut.

REMARKS:

SAMPLE SITE: 3562

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-17-89

Attachment:

PROPERTY NAME: Washington Hill mine
OTHER NAMES:
MINING DISTRICT: Castle Peak
COUNTY: Storey
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Steamboat
OWNERSHIP: Unknown
SEC: 5 ,T: 18N ,R: 21E
North: 4371006 East: 272908
PRODUCTION: Some but minor
HISTORY: Discovered and worked in the early forties
DEVELOPMENT: A 200 foot adit driven beneath a 100 by 75 foot open pit and several prospects. The adit was raised through the bottom of the pit.
GEOLOGY: The workings were sunk on a highly altered andesite and agglomerate along a N60 degree E, nearly-vertical vein in a shear. Extreme hydrothermal alteration has bleached the country rock white, stained it with iron, and moved silica into pods forming opalite. Cinnabar can be seen in the opalite and as disseminated crystals in the vein. Sample 3563 was taken from the main vein system above and along side of the shaft in the pit.
REMARKS:
SAMPLE SITE: 3563
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-17-89
Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Castle Peak

COUNTY: Washoe

MINERAL COMMODITY(IES): unknown

TYPE OF DEPOSIT: Breccia zone

QUAD SHEET: Vista

OWNERSHIP:

SEC: 17 ,T: 19N ,R: 21E

North: 4376932 East: 272345

PRODUCTION: None

HISTORY:

DEVELOPMENT: A short (less than 25m) adit and a small prospect pit.

GEOLOGY: An adit was put in on a breccia zone in tertiary andesite (Kate Peak Fm.?). The zone appears to be a flow breccia which is slightly deuterically? altered. Rock fragment surfaces are coated with smectite clay and sparse iron oxides.

REMARKS: Sample 4110 was collected as a grab from the dump.

SAMPLE SITE: 4110

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 5-31-89

Attachment:

PROPERTY NAME: Berg claims
OTHER NAMES: West Side mines
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): lead, silver, zinc
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Drumm Summit
OWNERSHIP:
SEC: 23 ,T: 17N ,R: 34E
North: 4353620 East: 402600
PRODUCTION: Unknown
HISTORY: District discovered in 1921 and worked intermittently until 1954
DEVELOPMENT: One shaft and one of the half-dozen smaller adits along the northwest part of the lower northwest side of Chalk Mountain.
GEOLOGY: At sample site 3872, an incline follows the dip of a N10 degrees E, 40 degrees SE, structure in dolomite. The margin of the structure porous iron-stained and completely oxidized. Some green-yellow oxides are present but no other mineralization was seen. Sample 3872 was taken from an adit about a third of a mile up the same canyon. The adit follows an irregular contact between granodiorite and dolomite and exposes a rind-like gossan, about 2-3 feet thick. This material was apparently the ore target but it is so highly oxidized that no minerals can be definitely identified within it. Sample 3876 contained 20 ppm silver, 100 ppm copper, 5000 ppm lead, 3000 ppm zinc and 150 ppm tungsten; gold ran .06 ppm
REMARKS:
SAMPLE SITE: 3872, 3876
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-22-86
Attachment:

PROPERTY NAME: Berg claims 2

OTHER NAMES:

MINING DISTRICT: Chalk Mountain

COUNTY: Churchill

MINERAL COMMODITY(IES): lead, zinc, copper

TYPE OF DEPOSIT: Replacement and contact

QUAD SHEET: Drumm Summit

OWNERSHIP: These may be either Berg or Treasure Hill claims

SEC: 23 ,T: 17N ,R: 34E

North: 4353110 East: 401550

PRODUCTION: Unknown

HISTORY: Early workings

DEVELOPMENT: Several shallow adits and a shaft with nearby prospects; to the west a large shaft; remnants of a camp in between.

GEOLOGY: The workings to the east are in felsite which makes up much of the very light-gray to white dumps. The small shaft at sample site 3877 is in dolomite that has been offset by faulting. Mineralization here includes quartz with gray streaks. Sample 3877 contained only low silver (3 ppm), but contained 7000 ppm copper, 100 ppm cobalt, 50 ppm lead, 700 ppm tin, and 700 ppm zinc. The very large shaft to the west was sunk on a contact between felsite and dolomite. A vein of quartz near to and parallel to the contact zone had some gray sulfides in outcrop. Sample 3878 was taken from inside the shaft and from the exposed vein; no vein material was present on the dump(?). The sample assayed 200 ppm arsenic, 100 ppm cadmium, 100 ppm copper, 200 ppm molybdenum, 5000 ppm lead, 100 ppm antimony, 1500 ppm zinc and 150 ppm tungsten; gold was not detected at (.05 ppm detection limit) in either sample.

REMARKS:

SAMPLE SITE: 3877, 3878

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-22-86

Attachment:

PROPERTY NAME: Berg claims 3
OTHER NAMES:
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): lead, silver, zinc, antimony, tungsten
TYPE OF DEPOSIT: Replacement, contact
QUAD SHEET: West Gate
OWNERSHIP:
SEC: 14 ,T: 17N ,R: 34E
North: 4353670 East: 403090
PRODUCTION: Some material shipped from these workings
HISTORY: Workings are old and from the same era as others along the west side of the mountain.
DEVELOPMENT: Several shallow shafts, two adits and several prospects within several hundred yards of one another.
GEOLOGY: The adits and shafts are along a S60 degrees E structure containing gossan-like, hematite-rich, porous ore. The ore is hosted in dolomite; the zone is within a few tens of feet from a granodiorite contact. Some granitic material is present on most of the dumps. Sample 3874, collected from the dumps, contained 100 ppm silver, 1000 ppm arsenic, 700 ppm copper, 300 ppm molybdenum, over 20,000 ppm lead, 200 ppm antimony, 30 ppm tin, 1500 ppm zinc and 150 ppm tungsten.
About 1/3 mile to the northeast, two shafts were sunk on a N45 degree E structure with a highly irregular dip in Luning Limestone. Lower on the mountain, an adit was driven and connects with at least one of the shafts. Sample 3875, taken from exposures of the vein and from dump material, assayed 20 ppm silver, 70 ppm copper, 150 ppm cadmium, 100 ppm molybdenum, 2000 ppm lead, 1000 ppm zinc and 150 ppm tungsten. Sample 3874 contained .10 ppm gold; sample 3875 contained .05 ppm gold.
REMARKS:
SAMPLE SITE: 3874, 3875
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-22-86
Attachment:

PROPERTY NAME: Chalk Mountain mines

OTHER NAMES:

MINING DISTRICT: Chalk Mountain

COUNTY: Churchill

MINERAL COMMODITY(IES): lead, silver, molybdenum

TYPE OF DEPOSIT: Replacement

QUAD SHEET: West Gate

OWNERSHIP: Chalk Mountain Associates, P.O. Box 3232, Reno, NV 89504

SEC: 23 ,T: 17N ,R: 34E

North: 4352580 East: 403790

PRODUCTION: Began in 1923, through 1943 totaled about \$250K

HISTORY: The mine began operations in 1921 with the best production between 1923 and 1927, was worked intermittently until 1980.

DEVELOPMENT: The mine was developed by a 40-foot shaft, two 110-foot shafts, and one double-compartment, vertical shaft 517 feet deep with lateral work on 6 levels. Total workings, about 5000 feet.

GEOLOGY: The workings are developed on a northeast-trending structure with irregular dips to the east that follow the east side of Chalk Mountain. The deposits occur as veins and as replacement bodies along fractures and preferred bedding in the limestone. The deposits were reported to be highly oxidized and sufficiently rich in iron to make them desirable for smelting. The ore is porous and covered with iron oxides, mostly reddish hematite. Some calcite, occasional yellow wulfenite, and yellow oxides of lead are present. The dumps have almost no visible sulfides such as argentite, galena, etc., although these minerals were reported to be common. The ore bodies were reported to have been enriched by leaching and secondary enrichment; some of the veins were reported to have been as much as ten feet wide. It was reported that attempts to re-enter the deep workings after 1954 were halted because of a large and continuous flow of water that occurred along the fault zone after the 1954 Fairview earthquake. Sample 3880, taken from the dumps associated with the larger workings, assayed 500 ppm silver, 3000 ppm arsenic, 100 ppm bismuth, 300 ppm cadmium, 500 ppm copper, 500 ppm molybdenum, over 20,000 ppm lead, 300 ppm antimony, 1000 ppm vanadium, 1000 ppm zinc, and 1.4 ppm gold.

REMARKS:

SAMPLE SITE: 3880

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-23-86

Attachment:

PROPERTY NAME: Chalk Mountain(?)

OTHER NAMES:

MINING DISTRICT: Chalk Mountain

COUNTY: Churchill

MINERAL COMMODITY(IES): lead, silver, zinc, molybdenum

TYPE OF DEPOSIT: Replacement

QUAD SHEET: West Gate

OWNERSHIP: Unknown but these workings may have been part of the Chalk Mtn. ground

SEC: 26 ,T: 17N ,R: 34E

North: 4351710 East: 403560

PRODUCTION: Unknown

HISTORY: Principal production came between 1923 and 1929 (if this is part of the Chalk Mtn. mine).

DEVELOPMENT: The southern workings are a cluster of four shafts several adits and about ten prospects.

GEOLOGY: These workings are along the main fault zone on the eastern side of Chalk Mountain and were reported to contain the best mineralization in the district. The workings are in limestone that has been intruded by granodiorite. The ore was concentrated along favorable beds in the limestone, usually in close proximity to the main fault zone which appears to have acted as a major conduit for ascending and descending ore solutions. Accounts by Schrader (1947) and Vanderburg (1940) contain detailed descriptions of these properties. Sample 3879 was selected from the dumps and consists of silicified gossan material and vein quartz; it contained 20 ppm silver, 1500 ppm arsenic, 500 ppm cadmium, 150 ppm copper, 500 ppm molybdenum, 20,000 ppm lead, 500 ppm vanadium, 3000 ppm zinc, and 0.20 ppm gold. The presence of vanadium correlates with reports that uranium was found at this site during the NURE program.

REMARKS:

SAMPLE SITE: 3879

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-23-86

Attachment:

PROPERTY NAME: Sample site 3882
OTHER NAMES:
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): lead(?)
TYPE OF DEPOSIT: vein (?)
QUAD SHEET: Drumm Summit
OWNERSHIP: Unknown
SEC: 27 ,T: 17N ,R: 34E
North: 4350960 East: 402360
PRODUCTION: Unknown
HISTORY: Old workings
DEVELOPMENT: Old shallow (30 ft) shaft, partly timbered.
GEOLOGY: The shaft was sunk atop a ridge of resistant alluvium. The dump was covered with silicified (chalcedonic quartz) in a purple lithic tuff. Some of the quartz was gray sulfides that assayed 50 ppm lead and 50 ppm tungsten(?)
REMARKS:
SAMPLE SITE: 3882
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-23-86
Attachment:

PROPERTY NAME: Sample site 3885
OTHER NAMES:
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): lead, silver, molybdenum
TYPE OF DEPOSIT: Replacement, contact
QUAD SHEET: West Gate
OWNERSHIP: Recent staking in area but no paper
SEC: 14 ,T: 17N ,R: 34E
North: 4354360 East: 404090
PRODUCTION: Unknown
HISTORY: Old workings
DEVELOPMENT: Shaft, adit and trenching
GEOLOGY: Shaft and adit explore a N10 degrees W vein in a shear; about 10 feet wide; near a contact between granodiorite and felsite. Vein and contact are a porous iron-stained highly oxidized material with only minor copper oxides as visible mineralization. Assay values ran 3 ppm silver, below .05 ppm gold, 500 ppm copper, 30 ppm lead, 100 ppm tin, and 1000 ppm zinc.
REMARKS:
SAMPLE SITE: 3885
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-23-86
Attachment:

PROPERTY NAME: Sample site 4314
OTHER NAMES:
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): iron
TYPE OF DEPOSIT: skarn
QUAD SHEET: West Gate
OWNERSHIP:
SEC: 23 ,T: 17N ,R: 34E
North: 4353811 East: 404177
PRODUCTION: None
HISTORY: unknown
DEVELOPMENT: short adits, loading chute
GEOLOGY: Massive magnetite skarn and jasperoid occur with gossan in marbleized limestone; structure not clear but appears to be NS, vertical; magnetite/jasperoid/gossan lense about 3 to 4 feet thick, is lenticular along strike.
REMARKS:
SAMPLE SITE: 4314
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Sol's Grubstake
OTHER NAMES:
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: contact zone
QUAD SHEET: Drumm Summit
OWNERSHIP: Sol Resnick, P.O. Box 3160, Carson City, NV; staked on Nov. 4, 1985
SEC: 34 ,T: 17N ,R: 34E
North: 4349410 East: 401630
PRODUCTION: None
HISTORY: Unknown
DEVELOPMENT: Staking in 1985, but no other activity
GEOLOGY: A hand-dug trench exposes the contact between volcanic units which has some light green chalcedonic quartz without visible mineralization and without significant assay values. Gold for sample 3884 was .04 ppm. Another prospect further up the hill to the north consisted of a 20 foot adit that followed the glassy vitrophere of a cooling unit. Sample 3883 taken from inside the adit was also without significant mineralization.
REMARKS:
SAMPLE SITE: 3883, 3884
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-23-86
Attachment:

PROPERTY NAME: West Side mine
OTHER NAMES: Berg or Treasure Hill claims
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, lead, zinc, molybdenum, copper
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Drumm Summit
OWNERSHIP: Unknown
SEC: 23 ,T: 17N ,R: 34E
North: 4353850 East: 402820
PRODUCTION: Some lead-silver production
HISTORY: Mined in the 1920's
DEVELOPMENT: Shafts, adits and prospects fairly shallow and mostly caved.
GEOLOGY: The area of the West Side mines is dominately limestones and dolomite thought to be Triassic in age. The workings are along irregular gossan-like, highly iron-stained fissures in limestone. The veins are commonly porous and highly oxidized with little visible mineralization. The limestone forms an east-west trending outcrop that bisects Chalk Mountain and, except for where intruded by felsite on the west, it is in continuous contact with Triassic dolomite over its entire length. Some of the exposed veins are along the margin of the contact zone. Samples 3800 and 3801 were taken from the dumps of the major working and consisted of highly oxidized iron-stained vein material. These samples were anomalous in silver, lead, zinc, arsenic, molybdenum, bismuth and lesser amounts of cadmium. Sample 3800 contained 0.08 ppm gold; sample 3801 contained 0.04 ppm gold. Sample 3873 came from a second shaft a few hundred feet southwest of main shaft; there the ore displayed strong green and yellow oxides associated with dark, iron-stained, gossan-like contact material. Sample 3873 contained 700 ppm silver, 5000 ppm copper, 7000 ppm lead, 10,000 ppm zinc, 300 ppm cadmium and 150 ppm bismuth.
REMARKS:
SAMPLE SITE: 3800, 3801, 3873
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-8-86
Attachment:

PROPERTY NAME: West Side mine (east)
OTHER NAMES: Sample site 3881
MINING DISTRICT: Chalk Mountain
COUNTY: Churchill
MINERAL COMMODITY(IES): lead, silver, zinc, copper
TYPE OF DEPOSIT: Replacement
QUAD SHEET: Drumm Summit
OWNERSHIP: Unknown
SEC: 23 ,T: 17N ,R: 34E
North: 4352420 East: 402970
PRODUCTION: Unknown
HISTORY: Equipment in place dates from the 1930's
DEVELOPMENT: Small shaft, adit and trenching
GEOLOGY: Workings explore stringers of quartz in gouge along a N40 degrees W, 70 degrees SW fault zone in dolomite near a contact with granodiorite. Quartz chipped from the vein contained minor amounts of gray sulfides. Sample 3881 assayed 100 ppm copper, 500 ppm lead, 200 ppm tin, and 300 ppm zinc. Gold was below the .05 ppm detection limit.
REMARKS:
SAMPLE SITE: 3881
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-23-86
Attachment:

PROPERTY NAME: Ruth mine
OTHER NAMES:
MINING DISTRICT: Churchill
COUNTY: Lyon
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Churchill Butte
OWNERSHIP: Unknown
SEC: 22 ,T: 27N ,R: 24E
North: 4355604 East: 303346
PRODUCTION: Less than \$10,000 from 400 tons
HISTORY: Area active for tungsten in the early 1940's
DEVELOPMENT: Adits, dozer-cuts, pits and trenches.
GEOLOGY: Tungsten ore-bodies occur in fracture zones along faults of small displacement which cut meta-sedimentary rocks. Scheelite, the ore mineral, occurs disseminated in skarn. The mine consists of two short adits from which a block of ore 50 feet long, 6 feet high, 15 feet wide was mined that averaged 0.4-0.5% WO₃. Four pits 1000 feet north on main workings shows mineralization in 3 of them that may average 0.1-1.2 percent WO₃ (Johnson and Benson, 1963). At the time of the visit there were several caved adits which had only a limited amount of contact zone still intact. Dozing had not exposed any new ore-bodies. Dozer-cuts along the southside of the mountain were also barren. Country rock in the newer zones included contact between granite and andesite as well as granite and limestone.
REMARKS: Sample 4291, of the limited remaining skarn, showed good visible scheelite.
SAMPLE SITE: 4291
REFERENCES: Johnson, A.C. and Benson, W.T., Tungsten Resources of Nevada, 1963, USBM, Unpublished report of fine NBMG files.
Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 10 gold prospect
OTHER NAMES:
MINING DISTRICT: Churchill
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Churchill Butte
OWNERSHIP: Unknown
SEC: 10 ,T: 17N ,R: 24E
North: 4357754 East: 303119
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two prospects; one a pit, the other a 15-foot shaft.
GEOLOGY: The 15-foot shaft is on a N 10-20 degrees E-striking quartz and quartz breccia vein hosted in granite and dipping 70 degrees SW. The pit follows a nearly parallel vein which also consists of quartz and quartz breccia. The only visible mineralization is pyrite.
REMARKS:
SAMPLE SITE: 4294
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 15 tungsten mine
OTHER NAMES:
MINING DISTRICT: Churchill
COUNTY: Lyon
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Churchill Butte
OWNERSHIP: Unknown
SEC: 15 ,T: 17N ,R: 24E
North: 4356999 East: 304441
PRODUCTION: \$10,000 from 75 tons of ore.
HISTORY: Unknown
DEVELOPMENT: Shaft and dozer cuts.
GEOLOGY: Good tungsten shows were lamped from selective material collected from contact zones between a granite and a limestone, and dumps associated with an old shaft.
According to Moore (1969) streaks of scheelite-bearing skarn occur on the contact between granite and a small limestone pendant.
REMARKS: Road to area almost gone. Seventy-five tons of hand-sorted ore assaying .75% WO₃ were concentrated on tables at a small mill near Weeks.
SAMPLE SITE: 4293
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas, and Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 22 silver-copper prospect
OTHER NAMES:
MINING DISTRICT: Churchill
COUNTY: Lyon
MINERAL COMMODITY(IES): silver-copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Churchill Butte
OWNERSHIP: Unknown
SEC: 22 ,T: 17N ,R: 24E
North: 4354295 East: 303731
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Three shafts
GEOLOGY: Three shafts explore a N 85 degrees E-striking shear zone in granite near a chert contact with little or no skarn. Interest was in mineralized quartz veins which contained visible copper mineralization and pyrite.
REMARKS:
SAMPLE SITE: 4290
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 22 tungsten prospect

OTHER NAMES:

MINING DISTRICT: Churchill

COUNTY: Lyon

MINERAL COMMODITY(IES): tungsten

TYPE OF DEPOSIT: skarn

QUAD SHEET: Churchill Butte

OWNERSHIP: Unknown

SEC: 22 ,T: 17N ,R: 24E

North: 4354565 East: 304074

PRODUCTION: Unknown

HISTORY: These mines were being prospected in the early 1940's

DEVELOPMENT: Shaft and pits

GEOLOGY: Shaft was sunk on a contact between quartz monzonite of Cretaceous age and meta-sediments (schist) of Triassic age. The contact strikes N 80 degrees E and is almost flat. Skarn zone was quite narrow but the sample showed considerable scheelite mineralization.

REMARKS:

SAMPLE SITE: 4289

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 7-6-89

Attachment:

PROPERTY NAME: Section 9 tungsten prospect

OTHER NAMES:

MINING DISTRICT: Churchill

COUNTY: Lyon

MINERAL COMMODITY(IES): tungsten

TYPE OF DEPOSIT: skarn

QUAD SHEET: Churchill Butte

OWNERSHIP: Unknown

SEC: 9 ,T: 17N ,R: 24E

North: 4357616 East: 302351

PRODUCTION: None recorded

HISTORY: Unknown

DEVELOPMENT: Shaft, adit, pits, trenches and dozer-cuts

GEOLOGY: A line of workings follow a contact between granite of Cretaceous age and meta-sediments of Jurassic-Triassic age. Exposures show very limited skarn or none at all. Where skarn does exist the scheelite shows are quite good. There has been considerable effort put into developing ore but very little mineralization has been exposed.

REMARKS:

SAMPLE SITE: 4295

REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75

EXAMINER: Jack Quade

DATE VISITED: 7-6-89

Attachment:

PROPERTY NAME: Sample site 4112

OTHER NAMES:

MINING DISTRICT: Clark-Derby area

COUNTY: Storey

MINERAL COMMODITY(IES): mercury

TYPE OF DEPOSIT: hot-spring

QUAD SHEET: Derby Dam

OWNERSHIP:

SEC: 35 ,T: 20N ,R: 22E

North: 4380934 East: 286961

PRODUCTION:

HISTORY:

DEVELOPMENT: A single small prospect pit

GEOLOGY: Silicified and iron-stained andesite is exposed on the dump of a small pit. The surrounding rocks on fresh hornblende andesite, and the altered rocks are not exposed in the pit wall. Either the altered rocks underlie fresh andesite, or the area of alteration is small. Alteration is similar to that at the nearby Taylor-Branch prospect (sample 3428). An unidentified white, soft, crystalline mineral (barite?) was noted.

REMARKS: Sample 4112 is select silicified andesite from dump.

SAMPLE SITE: 4112

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 6-1-89

Attachment:

PROPERTY NAME: Taylor-Branch prospect

OTHER NAMES:

MINING DISTRICT: Clark-Derby area

COUNTY: Storey

MINERAL COMMODITY(IES): mercury(?)

TYPE OF DEPOSIT: hot-spring

QUAD SHEET: Derby Dam

OWNERSHIP: Santa Fe Railroad Co.

SEC: 35 ,T: 20N ,R: 22E

North: 4380910 East: 286320

PRODUCTION: None

HISTORY:

DEVELOPMENT: Prospect pit (shown on map as shaft) and an adit below road (cored?)

GEOLOGY: Silicified and iron-stained Tertiary tuffaceous(?) sedimentary rock is exposed in a pit adjacent to the main road. Hydrothermal breccia zones are present in the exposures, and Asamera Minerals (U.S.) geologists report highly anomalous Hg with slightly(?) anomalous Sb. Au is reportedly not anomalous.

REMARKS: Sample 3428 is a grab sample of silicified, brecciated, and iron-stained tuffaceous(?) sedimentary rock.

SAMPLE SITE: 3428

REFERENCES: Rose (1969)

EXAMINER: L. J. Garside

DATE VISITED: 11-18-88

Attachment:

PROPERTY NAME: zz unknown
OTHER NAMES:
MINING DISTRICT: Clark-Derby area
COUNTY: Storey
MINERAL COMMODITY(IES): building stone(?)
TYPE OF DEPOSIT:
QUAD SHEET: Derby Dam
OWNERSHIP:
SEC: 35 ,T: 20N ,R: 22E
North: 4381350 East: 287200
PRODUCTION: Small(?)
HISTORY:
DEVELOPMENT: A single small pit
GEOLOGY: A small pit in relatively fresh tertiary Kate Peak formation andesite apparently was used to mine a small amount of blacky rock for building stone(?). The flows of the Kate here are horizontally and vertically jointed; the rock breaks into blacks about 50 x 30 x 15 cm.
REMARKS: Pit is in the SE/4, Sec. 35
SAMPLE SITE:
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 6-1-89
Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES: Diatomite prospects

MINING DISTRICT: Clark-Derby area

COUNTY: Storey

MINERAL COMMODITY(IES): diatomite

TYPE OF DEPOSIT:

QUAD SHEET: Derby Dam

OWNERSHIP:

SEC: 4 ,T: 19N ,R: 23E

North: 4379000 East: 293600

PRODUCTION: None

HISTORY:

DEVELOPMENT: Several bulldozer cuts, one nearly 100m long.

GEOLOGY: Several prospects in Sec. 4, T19N, R13E are for diatomite. In the pits white, finely laminated diatomite and diatomaceous shale are locally interbedded with gray, tuffaceous sandstone. Underlying and overlying(?) rocks are Kate Peak formation andesite flows.

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 6-1-89

Attachment:

PROPERTY NAME: Como-Eureka mine

OTHER NAMES:

MINING DISTRICT: Como

COUNTY: Lyon

MINERAL COMMODITY(IES): gold, silver, copper

TYPE OF DEPOSIT: Fissure Vein

QUAD SHEET: Como

OWNERSHIP:

SEC: 14 ,T: 15N ,R: 22E

North: 4338314 East: 285918

PRODUCTION: Reported to be \$250,000 in 1912.

HISTORY: Discovered in the 1860's

DEVELOPMENT: At the site there may be 5 major shafts; reported to have 1600 feet of underground workings in 1912. Extensive mill site and tailings; Some later drilling pads and holes.

GEOLOGY: The vein at the surface is 10-15 feet wide and bears N 55 degrees E. Alteration extends from the vein into the host andesite. The vein was reported to be oxidized down to the 250 level. The vein consisted of hard white or slightly bluish-tinged quartz, banded in some places. The ore minerals were pyrite, silver chloride, free gold and tetrahedrite. Sample of the ore was collected from the dumps and mill site (3727).

REMARKS: As of 1912, this mine was reported to have produced more values than any other in the district. Good values were reported all the way down to the 250 level. The vein was worked for about 1600 feet along its strike.

SAMPLE SITE: 3727

REFERENCES: Cuttler, H.C., Como, Nevada Mining and Scientific Press, April 1912. Sirdevan, W.H., Report on Nevada Deep Mines Co., Unpub. Report, Item 6, File 181, NBMG.

Carlisle, H.C., Report on Como Mines Co., Unpub. Report Item 3, File 181, NBMG.

EXAMINER: Jack Quade

DATE VISITED: 5-29-89

Attachment:

PROPERTY NAME: Hercules mine
OTHER NAMES:
MINING DISTRICT: Como
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein breccia
QUAD SHEET: Como
OWNERSHIP: Ivan Bowman, 105 Bardie Court, Grass Valley, CA (6-June-84)
SEC: ,T: 16N ,R: 22E
North: 4345034 East: 287937
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Three adits, two shafts and maybe ten prospect-pits, new roads, drill-pads and at least five major drill-holes.
GEOLOGY: Two large crosscut adits were driven S 80 degrees E on a shear dipping 80 degrees-85 degrees E in a host andesite flow containing andesite boulders up to 2 feet in diameter. The adit cut the large N 5-10 degrees E vein that was up to 20 feet thick, brecciated and iron-stained. The vein itself was hydrothermally altered, light-tan, mostly brecciated and commonly contained fine-grained pyrite. Further to the south there was a shaft that was sunk on the vein while the opposite end of the vein to the north was explored by an adit driven along the strike. Above these old workings several drill pads were used to slant drill at the vein system from the southeast. Two samples were taken one from the north 3767 and one from the south 3768, both containing massive breccia with a matrix of fine grained pyrite surrounding breccia clast of quartz in a silica. Another smaller parallel vein system to the east was also drilled.
REMARKS: Fair roads from Dayton.
SAMPLE SITE: 3767, 3768
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-8-89
Attachment:

PROPERTY NAME: Hulley Logan mine

OTHER NAMES:

MINING DISTRICT: Como

COUNTY: Lyon

MINERAL COMMODITY(IES): gold, silver, copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Dayton

OWNERSHIP: Unknown

SEC: 16 ,T: 15N ,R: 22E

North: 4337607 East: 283889

PRODUCTION: Reported to be \$76,995 between 1900 and 1940, recent heap leach not reported on.

HISTORY: Mine was on production in 1900-1940, later open pit and heap leach within the last seven years.

DEVELOPMENT: Older workings have largely vanished into the open-pit and leach pads.

GEOLOGY: The old and new workings are on the western end of the main east-west vein that bisects the camp. The vein consists of massive quartz, fine-grained pyrite, and breccia. Much of the breccia has a matrix of fine grained pyrite. The ore was reported to be free gold, tetrahedrite and silver chloride. Gold was reported to be highest in the east-west veins while silver dominated the north-south mineralization. Sample 3724 was taken from portions of lode in the pit which was hosted in highly altered hornblende andesite (Lode porphyry).

REMARKS: Fair road southeast of Dayton.

SAMPLE SITE: 3724

REFERENCES: Cutler, H.C., 1912, Como, Mining and Scientific Press. Stoddard, C., and Carpenter, J.A., Mineral Resources of Storey and Lyon Counties, Nevada (1950) NBMG Bull 49.

EXAMINER: Jack Quade

DATE VISITED: 5-29-89

Attachment:

PROPERTY NAME: Pony Meadows mine

OTHER NAMES:

MINING DISTRICT: Como

COUNTY: Lyon

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Como

OWNERSHIP: Unknown

SEC: 7 ,T: 15N ,R: 23E

North: 4340051 East: 288457

PRODUCTION: Unreported

HISTORY: A mill was built at the mine site in 1929 to treat ores from the mine. More recent activities include a Forestry Historical Site at Pony Meadows, just south of the mine.

DEVELOPMENT: Several shafts, large open-pit, loading facilities and prospects, mill site and tailings.

GEOLOGY: The open pit looks to have followed an old adit on a N 40 degrees W heading along the strike of a vein for several hundred feet. Beyond that, the vein and workings trend more northerly for another 2 to 3 hundred feet. All of the major workings were stoped through to the surface, some of the openings along the strike are 50-60 feet wide. Again, the host andesite has been bleached white by argillic alteration, most intensely near the veins.

REMARKS: New road from center of the main camp to Pony Meadows was just completed by the Forestry Dept. Sample 3729 was a random selection from dumps and mill site.

SAMPLE SITE: 3729

REFERENCES: Stoddard, C. and Carpenter, J.A., 1950, Mineral Resources of Storey and Lyon Counties, Nevada, NBMG Bull 49.

EXAMINER: Jack Quade

DATE VISITED: 5-29-89

Attachment:

PROPERTY NAME: Rapidan mine

OTHER NAMES:

MINING DISTRICT: Como

COUNTY: Lyon

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Fissure veins

QUAD SHEET: Como

OWNERSHIP: Unknown

SEC: 14 ,T: 15N ,R: 22E

North: 4338449 East: 285176

PRODUCTION: Considerable, but the exact amounts are not known.

HISTORY: Discovered in the 1860's and worked intermittently until the present.

DEVELOPMENT: As early as 1912 the mine was being worked from three different levels, stoping of ore bodies was going on and ore was being milled.

GEOLOGY: Very large dumps and stockpiles, up to 500 feet long, of highly oxidized ore lies along the south side of the main east-west canyon in the center of the district. The ore is from the Rapidan shaft and the Boyle tunnel. The main mineralized zone was reported to be several hundred feet wide and striking northeast. In addition, there were numerous north-south, cross-cutting fissures filled with mineralized veins as well as mineralized quartz dikes. The structures and veins were hosted in hornblende andesite (lode porphyry). Argillic alteration is ubiquitous. Adjacent to the veins the andesite is bleached white and completely argillitized. Some of the andesite outcrops appear to have been altered to alunite. The ore is most commonly a quartz breccia with a gray matrix of fine grained pyrite and what must also be some silver sulfides. The gold, which was richer near the surface and of higher-grade in the east-west veins, occurred as free-gold. Sample 3725 is a grab sample from the stockpiles and dumps, while sample 3726 is from dumps near the mill.

REMARKS:

SAMPLE SITE: 3725, 3726

REFERENCES: Cutler, H.C., 1912, Como, Mining and Scientific Press.

Stoddard, C., and Carpenter, J.A., Mineral Resources of Storey and Lyon Counties, Nevada (1950), NBMG Bull 49.

EXAMINER: Jack Quade

DATE VISITED: 5-29-89

Attachment:

PROPERTY NAME: Section 25 adit
OTHER NAMES:
MINING DISTRICT: Como
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Como
OWNERSHIP: Unknown
SEC: ,T: 16N ,R: 22E
North: 4344687 East: 286902
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A large adit
GEOLOGY: The adit was collared in alluvium and driven almost due east to undercut a very large, silicified and brecciated, north-south vein hosted in andesite. Vein material on the dump was sparse but contained both quartz and rhyolite breccia.
REMARKS: No new work in this area.
SAMPLE SITE: 3769
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-8-89
Attachment:

PROPERTY NAME: Stone Cabin claims
OTHER NAMES:
MINING DISTRICT: Como
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein (breccia)
QUAD SHEET: Como
OWNERSHIP: Unknown
SEC: 12 ,T: 15N ,R: 22E
North: 4339185 East: 286445
PRODUCTION: None recorded.
HISTORY: Camp dates from 1860's.
DEVELOPMENT: A series of prospects and shallow shafts.
GEOLOGY: Smaller workings prospect veins north of the main camp. Most of the veins trend north-south, are narrow and iron-stained with argillitized andesite host. Some vuggy quartz is present but breccia with pyrite matrix not uncommon.
REMARKS:
SAMPLE SITE: 3728
REFERENCES: Stoddard, Carl, and Carpenter, J.A., 1950, Mineral Resources of Storey and Lyon Counties of Nevada, NBMG Bull 49.
EXAMINER: Jack Quade
DATE VISITED: 5-29-89
Attachment:

PROPERTY NAME: Belmont and Uncle Sam shaft

OTHER NAMES:

MINING DISTRICT: Comstock

COUNTY: Storey

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Flowery Peak

OWNERSHIP: Unknown

SEC: 28 ,T: 17N ,R: 21E

North: 4354558 East: 274003

PRODUCTION: Unknown

HISTORY: Unknown, but this is part of the earliest activity in the district.

DEVELOPMENT: Two shafts and many prospects

GEOLOGY: The main shaft was sunk on alluvium but is underlain by Kate Peak agglomerate. There are slickensides on some of the vein material which is largely quartz with pyrite and other sulfides. Much of the host rock is altered to a punky-white argillic mass along the structure.

REMARKS: The workings are on both sides of Sevenmile Canyon just north of Sixmile Canyon.

SAMPLE SITE: 3771

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 6-6-89

Attachment:

PROPERTY NAME: Florida shaft
OTHER NAMES:
MINING DISTRICT: Comstock
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Virginia City
OWNERSHIP: Unknown
SEC: 13 ,T: 16N ,R: 20E
North: 4348410 East: 268988
PRODUCTION: Unknown
HISTORY: Unknown but part of early exploration.
DEVELOPMENT: Caved shaft and prospects, evidence that the adjacent spring was used as mill site.
GEOLOGY: The shaft was sunk on a shear zone hosted in a dark-greenish-gray meta-andesite. While the workings are quite extensive, the structure appears to have been barren as very little vein material was present.
REMARKS: Near part of the Old V&T railroad bed.
SAMPLE SITE: 3652
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: Lady Bryan mine

OTHER NAMES:

MINING DISTRICT: Comstock

COUNTY: Storey

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Vein

QUAD SHEET: Flowery Peak

OWNERSHIP:

SEC: 23 ,T: 27N ,R: 21E

North: 4355132 East: 276371

PRODUCTION: \$64,507 reported before 1876

HISTORY: Discovered before 1868. One of the earliest patents on the Comstock. Mined until 1881, sporadic thereafter. Purchased by the Flowery Mining Co. in 1923. In recent years the site of a large open-pit operation.

DEVELOPMENT: Early working included 2 shafts one 600 feet deep the other 900. One on each side of canyon. Gold-silver production from the upper workings only, which probably accounts for it being the site of an open-pit.

GEOLOGY: The early shafts and other workings have been swallowed up in the open-pit, which is hosted Alta Andesite of Miocene age.

REMARKS: Just north of Six Mile Canyon road. Sample 3770 was from dumps associated with some of the early workings near the mouth of the canyon. The open-pit was not in operation at the time of the visit.

SAMPLE SITE: 3770

REFERENCES: Stoddard, Carl, and Carpenter, J.A., 1950, Mineral Resources of Storey and Lyon Counties, Nevada: NBMG Bull 49.

EXAMINER: Jack Quade

DATE VISITED: 6-6-89

Attachment:

PROPERTY NAME: Oest mine
OTHER NAMES:
MINING DISTRICT: Comstock
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Virginia City
OWNERSHIP:
SEC: 17 ,T: 16N ,R: 21E
North: 4348412 East: 271330
PRODUCTION: From 1887-1892 about \$564,364 from 6,588 tons or \$85/ton. About 450 tons of low grade \$10/ton in the 1940s by Dayton Co.
HISTORY: Early mining dates from 1880s.
DEVELOPMENT: A 300 foot shaft, drifts and raises not described.
GEOLOGY: The big shaft was sunk on the footwall side of the Silver City, Haywood-Oest Fault near the junction of two major veins, hosted in meta-volcanics of Triassic age. The northeast-trending fault system forms a major structure that can be traced on the surface for over two miles along its strike. The ore was reported to be free gold and electrum and was concentrated in tabular lenses near the junction of two veins along the major structure.
REMARKS: The mine is 3/4 of a mile southwest of Silver City.
SAMPLE SITE: 3654
REFERENCES: Gianella, V.P., 1936, Geology of the Silver City District and the southern portion of the Comstock Lode, Nevada, Nevada Bull. Vol. 30. Stoddard, Carl, and Carpenter, J.A., 1959, Mineral Resources of Storey and Lyon Counties, Nevada: NBMG Bull 49.
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: Phoenix mine
OTHER NAMES:
MINING DISTRICT: Comstock
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein and breccia
QUAD SHEET: New Empire
OWNERSHIP: Unknown
SEC: 20 ,T: 16N ,R: 21E
North: 4346978 East: 271126
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A line of shafts, adits, and open stopes for about a third of a mile
GEOLOGY: The major workings follow a N70 degrees E-striking, 65 degrees NW-dipping shear in gray volcanic tuff of the Hartford Hill Formation. A number of the workings are stoped through to the surface. The vein system averages about 3 feet in width and includes massive quartz, breccia and silicified wall rock.
REMARKS: North and east of state Highway 341. Some shipping of ore was accomplished from a loading dock near the mouth of the canyon.
SAMPLE SITE: 3653
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: Prospect shaft
OTHER NAMES:
MINING DISTRICT: Comstock
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: New Empire
OWNERSHIP: Unknown
SEC: 18 ,T: 16N ,R: 21E
North: 4347195 East: 269316
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and prospects.
GEOLOGY: Prospect shaft was sunk on a N 55 degrees E shear which was further exposed by later dozing. Argillic alteration extends away from the shear and into a highly altered volcanic host which appears to have been a tuff. Quartz stringers and silicified, iron-stained gouge fill the 18" shear zone.
REMARKS: West of what may be a trend leading into the Haywood mine??
SAMPLE SITE: 3651
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: Section 16 shafts

OTHER NAMES:

MINING DISTRICT: Comstock

COUNTY: Lyon

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: veins and breccia

QUAD SHEET: New Empire

OWNERSHIP: Unknown

SEC: 16 ,T: 16N ,R: 21E

North: 4347030 East: 272935

PRODUCTION: Some production from mines and some from placer workings but amount unknown

HISTORY: Placer workings are part of the 1860's discovery.

DEVELOPMENT: Numerous prospects and shafts along and to the east of the drainage.

GEOLOGY: All of the workings appear to be along silicified zones in highly altered (argillic and alunite) Hartford Hill Rhyolite. Nearly all the workings are shallow and contain some fine-grained pyrite. The matrix of the brecciated zones are often filled with fine-grained pyrite.

REMARKS: Less than 1/2 mile east of Highway 341.

SAMPLE SITE: 3655

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-11-89

Attachment:

PROPERTY NAME: Section 28 shafts
OTHER NAMES:
MINING DISTRICT: Comstock
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: New Empire
OWNERSHIP: Unknown
SEC: 28 ,T: 16N ,R: 21E
North: 4345067 East: 273232
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Four shafts, trenches and prospect pits.
GEOLOGY: One three hundred foot trench 15 feet deep and four shafts explore a N 70 degrees W-striking shear in andesite. The structure contains quartz breccia and silicified gouge with iron-staining and considerable argillic alteration along the boundaries of the host rock.
REMARKS: Very limited access due to No Trespassing signs.
SAMPLE SITE: 3765
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-6-89
Attachment:

PROPERTY NAME: Sections 27-28 shaft and adit

OTHER NAMES:

MINING DISTRICT: Comstock

COUNTY: Lyon

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Dayton

OWNERSHIP: Unknown

SEC: 27,28 ,T: 16N ,R: 21E

North: 4343917 East: 273752

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Shaft, adit

GEOLOGY: A twenty-foot shaft on a 3-foot mineralized quartz vein bearing N 40 degrees E, dipping close to vertical, is hosted in a meta-andesite of Triassic age. The vein contained pyrite and unidentified sulfides. Below the shaft and on strike with the vein is an adit driven beneath the structure. Sample 3763 was taken from the dumps associated with the adit, while sample 3764 was taken from the vein adjacent to the shaft.

REMARKS: Other prospects in this area on similar veins in the Triassic meta-sediments.

SAMPLE SITE: 3763, 3764

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 6-6-89

Attachment:

PROPERTY NAME: Corral Canyon titanium prospect

OTHER NAMES:

MINING DISTRICT: Corral Canyon

COUNTY: Churchill

MINERAL COMMODITY(IES): titanium

TYPE OF DEPOSIT: intrusive contact

QUAD SHEET: Humboldt Salt Marsh

OWNERSHIP:

SEC: ,T: ,R:

North: 4421116 East: 417586

PRODUCTION: none

HISTORY: unknown

DEVELOPMENT: Two short adits, 10- to 20-long, and prospect cuts and trenches

GEOLOGY: Workings explore a brecciated, silicified zone associated with a felsite dike(?). Zone is bounded on the west by a N55E-striking, 85-degree SE-dipping fault that separates silicified dike rock on the NW from quartz-banded breccia to the SE; breccia has chunks of silicified wall rock within it, it is 10- to 15-feet wide. Areas in the silicified zone have concentrations of oxidized sulfide phenocrysts up to 1/4-inch across--these may have been magnetite or a titanium mineral rather than sulfides. Vein zone is laced with veinlets of cinnamon-brown stained silica and silica-cemented, brecciated vein material. Fractures in the zone interconnect and grade into anastomosing breccias; veinlets roughly parallel strike of vein zone (N75E) but dip 35-degrees SE. To the NE, across the canyon, the zone has the form of a silicified ledge 20- to 30-feet thick dipping about 45-degrees toward the valley.

REMARKS: The dike contact zone has been explored for about 1000 feet along strike; Santa Fe Pacific Mining Co. has drilled several angle drill holes into the structure along strike in the past 1 to 2 years.

SAMPLE SITE: 4347

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 31, 1989

Attachment:

PROPERTY NAME: Last Chance claims (?)
OTHER NAMES:
MINING DISTRICT: Corral Canyon
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: fault zone
QUAD SHEET: Humboldt Salt Marsh
OWNERSHIP:
SEC: ,T: ,R:
North: 4422808 East: 421652
PRODUCTION: none
HISTORY: unknown
DEVELOPMENT: Short adit, now caved
GEOLOGY: Adit parallels the crushed contact zone between silicified meta-volcanic rocks and a fine-grained dike. Hot-spring alteration along the contact has produced thick fracture coatings of opaline and chalcedonic silica; iron-oxide stains fractures and clots of gypsum are found in the altered zone.
REMARKS:
SAMPLE SITE: 4348
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: July 31, 1989
Attachment:

PROPERTY NAME: Camp Gregory mine
OTHER NAMES: Camel claims
MINING DISTRICT: Dead Camel Mountains area
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Sheckler Res
OWNERSHIP: Gray Hill Exploration Co., Arvada, CO
SEC: 33 ,T: 18N ,R: 27E
North: 4360385 East: 331340
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Several shafts, identified on the map as the Camp Gregory Mine, and prospects dot the area.
GEOLOGY: The area is underlain mainly by Tertiary volcanic and sedimentary rocks and is thought to be the site of an extensive hot-spring system. The rocks include rhyolite flows, domes and non-welded tuffs, andesite and basalt flows, debris flows, and tuffaceous sediments. Alteration is reported to consist of silicification of tuffs, hydrothermal breccias, and sediments. The andesites and basalts are propylitized. Alteration is reported to decrease with depth and the area is reported to be only weakly mineralized. Pyrite is reported to be present in the andesite while antimony and arsenic oxides stain breccias and sinter. Anomalous silver values (up to 31.5 ppm) were reported from particular breccias. Our sample 3967 was taken from a silicified shear zone or vein at the main Camp Gregory mine shaft. The vein bears N10 degrees E and dips steeply to the east. Assay values ran very low. Sample 3968 collected at the shaft to the west of the main shaft, also had low metal values. Sample 3969 collected from an outcrop of quartz breccia, also had low values. Gold was not detected in any of our samples.
REMARKS:
SAMPLE SITE: 3967, 3968, 3969
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-12-86
Attachment:

PROPERTY NAME: Wildhorse claims

OTHER NAMES:

MINING DISTRICT: Dead Camel Mountains area

COUNTY: Churchill

MINERAL COMMODITY(IES): diatomite

TYPE OF DEPOSIT: bedded

QUAD SHEET: Salt Cave

OWNERSHIP: N. Berry, Harlingen, TX; R. Berry, Dallas, TX; L. Ramey, Portland, OR; S.J., V.B., and C.M. Campbell, Pt Orchard, WA

SEC: 11 ,T: 17N ,R: 27E

North: 4357240 East: 334300

PRODUCTION: Unknown

HISTORY: Claims have been held for many years.

DEVELOPMENT: Old roads and 24 inch drill-holes that look like shafts

GEOLOGY: Area is underlain by Tertiary Lake sediments that include local-beds of diatomite. The exposed beds have been augered by a 24-inch frill, probably to determine diatomite content. No development work has followed, but claims have been held for many years which would seem to suggest that they intend to develop the resource when the price is right. Sample 3966, taken from the beds, did not show any base or precious metal values.

Vanderburg (1940, p. 32) stated "although the property has been known for many years, it had been little prospected, and there had been no production" and "In one place the diatomaceous earth is exposed on the side of a hill, a thickness of at least 30 feet is indicated. The material is pure white, homogenous, and apparently of good quality."

REMARKS:

SAMPLE SITE: 3966

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 10-12-86

Attachment:

PROPERTY NAME: Ajax Nevada mine
OTHER NAMES: N. ED. EX claims
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Fissure Vein
QUAD SHEET: Mineral Peak
OWNERSHIP: Raymond F. Robinson, 180 Larmie Dr., Reno, NV 89511
SEC: 3 ,T: 14N ,R: 21E
North: 4332012 East: 273599
PRODUCTION: None recorded
HISTORY: Report written on the mine is dated 1914. Recent road building and drilling. Cordex drilled the holes and Wesley Mining has the lease.
DEVELOPMENT: Several shafts, one caved adit, surrounded by prospects. Recent road building and drilling.
GEOLOGY: Vein follows a N70 degrees E-striking fracture in highly altered rhyolite. The ore bodies were reported to be irregular, with no definite walls, along a fault plane in rhyolite that has been locally altered to kaolin and silicified. In places, the host rocks are leached white. The vein consists of quartz and silicified gouge.
REMARKS: It looks as though there has been ore stockpiled and shipped.
SAMPLE SITE: 3713
REFERENCES: Sirdevan, W.H., Report on the Ajax-Nevada Prop, NBMG Files, March 14, 1914.
Moore, J.R., Geology and Mineral Deposits of Lyon, Douglas and Ormsby Counties, Nevada; NBMG Bull 75, 1969.
EXAMINER: Jack Quade
DATE VISITED: 5-24-89
Attachment:

PROPERTY NAME: Alex Eske mine
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: McTarnahan Hill
OWNERSHIP: Unknown
SEC: 8 ,T: 14N ,R: 21E
North: 4330217 East: 270336
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Extensive area of prospects
GEOLOGY: Extensive dozing along contacts between meta-sediments and granite...Some of the metasediments have also been prospected for iron which appears frequently as float along the hillsides and in prospects.
REMARKS: Area abounds with prospects and roads, that appear to be 7 to 10 years in age.
SAMPLE SITE: 3718
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-24-89
Attachment:

PROPERTY NAME: Bessemer mine

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Douglas

MINERAL COMMODITY(IES): iron

TYPE OF DEPOSIT: Fault zone

QUAD SHEET: New Empire

OWNERSHIP: Unknown

SEC: 29 ,T: 15N ,R: 21E

North: 4334602 East: 271370

PRODUCTION: Reported to be less than 1000 tons.

HISTORY: Trial shipments made in 1907; ore shipments made in 1919-20, 1944; Continental Nevada Iron Mining Co. had the property in 1953 and shipped less than 1000 tons.

DEVELOPMENT: Open pit and prospects

GEOLOGY: The ore occurs at a bend in a southeast-trending fault zone at its junction with a branch fault that trends east. Ore is in the form of a lenticular chimney, 10 by 60 feet, that rakes steeply to the north. Presently, a 4-foot thick, northwesterly-trending, 60 degrees NE-dipping vein has been left in place bounded by quartzite breccia. A sample was taken of the massive vein and portions of the breccia. The main vein is massive magnetite, but with considerable silica along the boundary.

REMARKS: My Brunton wouldn't work - too much magnetite!

SAMPLE SITE: 3712

REFERENCES: Reeves, R.G., Kral, V.E., and Shawn, F.R., Iron Ore Deposits of west central Nevada, NBMG Bull 53-B, 1958.

Moore, J.G., Geology and Mineral Deposits of Lyon County, Douglas, Ormsby, Counties, Nevada NBMG Bull 75, 1969.

EXAMINER: Jack Quade

DATE VISITED: 5-24-89

Attachment:

PROPERTY NAME: Bidwell mine
OTHER NAMES: Comstock Extension mine
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver, copper, lead
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: New Empire
OWNERSHIP: Unknown
SEC: 28 ,T: 15N ,R: 21E
North: 4335646 East: 272672
PRODUCTION: None recorded but it looks to have shipped some ore.
HISTORY: Unknown
DEVELOPMENT: Two rather closely spaced (100 feet) shafts. From the size of the dumps both could exceed several hundred feet of workings.
GEOLOGY: The southern-most shaft was sunk on a 6-foot fissure vein bearing N 80 degrees E and dipping 55 degrees NW between a quartz monzonite and a granodiorite. A considerable amount of vein material is scattered on a loading area. The vein material contains chalcopyrite, pyrite, galena and both sulfides and oxides of copper. The veins were reported to have also carried values in gold and silver.
REMARKS: Moore, P. 31 reported the host rocks as andesite but none was observed around the workings or on the dumps.
SAMPLE SITE: 3664
REFERENCES: Moore, J.G., Geology and Mineral Deposits of Lyon, Douglas and Ormsby, Counties of Nevada, NBMG Bull 75, 1969.
EXAMINER: Jack Quade
DATE VISITED: 5-12-89
Attachment:

PROPERTY NAME: Bunker Hill mine

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Carson City

MINERAL COMMODITY(IES): gold, silver, copper, tungsten

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: New Empire

OWNERSHIP: Unknown

SEC: 31 ,T: 15N ,R: 21E

North: 4333044 East: 268889

PRODUCTION: A total of \$160,000 reported, with values in gold and copper.

HISTORY: Located and worked during the early part of the Comstock era and intermittently thereafter.

DEVELOPMENT: Adit, incline and prospects, part of which has been opened by a small pit. Several old buildings still usable.

GEOLOGY: It was reported that the vein at depth varied in thickness from 1 foot to over 10 feet had a chimney-like configuration. The vein followed a contact between meta-sediments and quartz porphyry. More recently, the workings at the surface have been mined forming a moderate-sized open-pit where the flat lying vein is in contact with a highly altered meta-limestone. The vein consists of copper oxides and sulfides that are reported to carry gold-silver mineralization. Sample 3662 taken from these workings also showed minor scheelite.

REMARKS: Access is via a fair road south of Brunswick Canyon.

SAMPLE SITE: 3662

REFERENCES: Carper, A.F., Report on Empress Group, unpub. report, NBMG files May 26, 1921.

Moore, J.G., Geol & Min. Deposits, Lyon County, Nevada NBMG Bull 75 1969.

EXAMINER: Jack Quade

DATE VISITED: 5-12-89

Attachment:

PROPERTY NAME: Edison Nevada mine
OTHER NAMES: June Ellen mine
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mineral Peak
OWNERSHIP: Wesley Mining, Reno, NV (leasee)
SEC: 3 ,T: 14N ,R: 21E
North: 4331896 East: 274133
PRODUCTION: Reported to be between \$10,000 and \$100,000
HISTORY: First located as the Phonix claim during the 1919 era; dozed and drilled within the last year.
DEVELOPMENT: Several adits, a shaft, drifts stoped through to the surface, pits and trenches, drill sites and drill-hole.
GEOLOGY: Mining and prospecting in the area is along faults with silicified gouge and quartz. The mining is extended into the altered and silicified rhyolite. Some of the older workings have been open-pitted while others have been stoped through to the surface. The underground workings, where accessible, are a maze following veins or shears(?) in the host rhyolite. One of the older workings follows a N 25 degrees E, irregular, 4-foot shear in highly altered rhyolite near but not along a contact with a dark-gray porphory. Some of the ore is brecciated, some is vuggy with cockade structures, all of it is iron-stained and much of it has streaks and blebs of fine-grained pyrite.
REMARKS: Cordex is reported to drilled the property, but Wesley Mining holds the lease.
SAMPLE SITE: 3714
REFERENCES: Carper, A.F., Report on the Edison Nevada Property, unpublished Report, NBMG files Oct. 7, 1919.
EXAMINER: Jack Quade
DATE VISITED: 5-24-89
Attachment:

PROPERTY NAME: Dixon mine
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): manganese, tungsten
TYPE OF DEPOSIT: vein
QUAD SHEET: Dayton
OWNERSHIP:
SEC: 15 ,T: 15N ,R: 21E
North: 4338779 East: 274182
PRODUCTION: None recorded
HISTORY: Unknown
DEVELOPMENT: Prospects and small adit
GEOLOGY: Tungsten-bearing manganese oxides occur as massive vein in a highly silicified and brecciated rhyolite tuff. Although small amounts of the vein are stockpiled near the entrance of a small adit driven directly on the vein, there is no evidence of any production. The work to date is almost all prospecting.
REMARKS: Poor road from the south deadends at the Dixon property.
SAMPLE SITE: 3666
REFERENCES: Moore, J.G., Geology and Mineral Resources, Lyon, Douglas and Ormsby, Counties Nevada NBMG Bull 75, 1969
EXAMINER: Jack Quade
DATE VISITED: 5-12-89
Attachment:

PROPERTY NAME: Mean Green Money Machine claims
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Douglas
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mineral Peak
OWNERSHIP: Christopher Hahn, Boy Scout and Cub Scouts, Incline Village, Nevada
SEC: 25 ,T: 14N ,R: 21E
North: 4325485 East: 277526
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Large trench and small open-pit
GEOLOGY: Large, east-west dozer-cut exposed joints filled with copper mineralization. Most of the workings are in the lower white ash tuffs of the Tertiary Mickey Pass Formation.
REMARKS: Fair road to the east-west. Entire are is cut-up with assessment-type dozer-cuts that probably date from the uranium exploration period in the 1950's.
SAMPLE SITE: 3717
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-24-89
Attachment:

PROPERTY NAME: NE Section 22 shafts and adit

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Douglas

MINERAL COMMODITY(IES): barite, silver

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: McTarnahan Hill

OWNERSHIP: Unknown

SEC: 22 ,T: 14N ,R: 20E

North: 4327080 East: 264584

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Major crosscut adit and shaft, trenches and prospects.

GEOLOGY: A 200-foot crosscut adit was driven N 70 degrees E in limy, shaly sediments and cuts the N 40 degrees W vein on which the upper shaft was sunk. Both workings are long enough and deep enough to have been connected at depth. Both have barite and similar breccia and quartz vein materials on their dumps. REMARKS: Very poor access to the area by any vehicle due to drifting sand. An old road from the east provided access to the upper workings and to the upper area in general.

SAMPLE SITE: 3721

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-25-89

Attachment:

PROPERTY NAME: Nez Perce claims
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Douglas
MINERAL COMMODITY(IES): tungsten, molybdenum
TYPE OF DEPOSIT: skarn; vein
QUAD SHEET: McTarnahan Hill
OWNERSHIP: Unknown
SEC: 18 ,T: 14N ,R: 21E
North: 4328087 East: 269901
PRODUCTION: Some but none recorded
HISTORY: Unknown
DEVELOPMENT: Shafts, adits and open-cuts as well as drifts with stopes through to surface.
GEOLOGY: A N35 degrees E-striking, irregular dipping, 4-foot vein in shear is exposed along its strike by an adit that has been stoped through to the surface, and crosscut by a lower caved adit. Additional workings not shown on the map follow the vein to the east. Much of the ore is oxidized, iron-stained and hosted in limestone. No tungsten was observed although some molybdenite was in evidence.
REMARKS: Poor roads from the west.
SAMPLE SITE: 3723
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-25-89
Attachment:

PROPERTY NAME: SE Section 22 shafts and adits

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Douglas

MINERAL COMMODITY(IES): copper, silver, barite

TYPE OF DEPOSIT: Fissure veins

QUAD SHEET: McTarnahan Hill

OWNERSHIP: Unknown

SEC: 22 ,T: 14N ,R: 20E

North: 4326548 East: 264697

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Five shafts, several adits, and many prospect pits.

GEOLOGY: Main vein, bearing N55 degrees W, and dipping 60 degrees NE, in shear has been sunk on by shallow shafts and cross-cut by lower adits. Workings are in limy meta-sediments that are altered by hydrothermal waters, iron-stained and oxidized. The vein consists of silicified gouge, barite, and copper-silver mineralization. Host rocks may be underlain by granitic rock.

REMARKS: Access to the area is very limited due to drifting sand.

SAMPLE SITE: 3720

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-25-89

Attachment:

PROPERTY NAME: Section 28 shaft
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): copper, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: New Empire
OWNERSHIP: Unknown
SEC: 28 ,T: 15N ,R: 21E
North: 4335674 East: 272233
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospects and shallow caved shaft.
GEOLOGY: Quartz vein in granite bearing N80 degrees E, almost vertical and about 3-feet thick was sunk on by a shaft that is now caved. The vein like many in the area has some copper mineralization. Locally there are more prospects than are shown on the maps and most of them are in granite and exploring veins. Much of the interest appears to be the result of the Bidwell Mine to the east, which is in a similar environment.
REMARKS: Roads to the area are to the east of Brunswick Canyon.
SAMPLE SITE: 3663
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-12-89
Attachment:

PROPERTY NAME: Section 31 shaft

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Carson City

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: New Empire

OWNERSHIP: Unknown

SEC: 31 ,T: 15N ,R: 21E

North: 4333965 East: 269315

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Shaft

GEOLOGY: A shallow shaft and prospect explore a small quartz vein and in a recrystallized volcanic tuff of Triassic age. The dip and strike of the vein are irregular.

REMARKS: The area in general is the site of trash dumping which appears to be an on-going problem in and around Brunswick Canyon.

SAMPLE SITE: 3661

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-12-89

Attachment:

PROPERTY NAME: Section 31 shaft and adit

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Carson City

MINERAL COMMODITY(IES): silver

TYPE OF DEPOSIT: Gossan

QUAD SHEET: New Empire

OWNERSHIP: Unknown

SEC: 31 ,T: 15N ,R: 21E

North: 4333926 East: 268855

PRODUCTION: Unknown

HISTORY: At least two phases one sunk the shaft and adit the other consist of trenching and prospecting.

DEVELOPMENT: Roads, shaft, adit, trenching and prospecting.

GEOLOGY: A 6-foot gossan-like, iron-stained, silicified vein bearing N15 degrees E, and dipping 75 degrees NW in limestone has been exposed in a shallow shaft and several adits. A more recent period of exploration involves trenching near the older workings and prospecting along the strike to the southwest.

Mineralization in the vein system includes a distinct lime-green oxide coating. The host limestone is Triassic in age.

REMARKS: Access is via poor roads from the east via Brunswick Canyon.

SAMPLE SITE: 3660

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-12-89

Attachment:

PROPERTY NAME: Section 34
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Mineral Peak
OWNERSHIP: Unknown
SEC: 34 ,T: 15N ,R: 21E
North: 4333515 East: 275105
PRODUCTION: Unknown
HISTORY: Old shaft
DEVELOPMENT: Single shaft and numerous prospects
GEOLOGY: A N40 degree E, vertical, 4-foot fissure vein containing argillic, iron-stained gouge and only limited quartz is hosted in older volcanics. Many similar but smaller workings occur within a one mile radius.
REMARKS: Roads are almost non-existent.
SAMPLE SITE: 3667
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-12-89
Attachment:

PROPERTY NAME: Tyee and South Mac #1 claims

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Douglas

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Replacement, fissure vein

QUAD SHEET: McTarnahan Hill

OWNERSHIP: Don Parkhurst et al., P.O. Box 4175, Carson City, NV

SEC: 19 ,T: 14N ,R: 21E

North: 4327814 East: 268962

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Shaft, and prospects.

GEOLOGY: Shaft was sunk on shaly meta-sediments near contact with granite. There is no skarn nor contact minerals in evidence. Dumps contain replacement ore in strongly silicified sheared material.

REMARKS: Fair roads from the west.

SAMPLE SITE: 3722

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-25-89

Attachment:

PROPERTY NAME: United Mining Co. mine

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Carson City

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: McTarnahan Hill

OWNERSHIP:

SEC: 4 ,T: 14N ,R: 21E

North: 4331681 East: 272971

PRODUCTION: None reported; but there must have been some, as the workings are huge.

HISTORY: The mine was operational sometime before 1918 but did not thereafter. Stock holders in the mine traded their stock from Boston American stock in 1915 according to E.H. Weed.

DEVELOPMENT: Two shafts, 100 and 450 feet respectively, and numerous pits and adits.

GEOLOGY: The main shaft is capped by a 200-foot-wide gossan above four fissures in andesite. The veins were reported to vary greatly in width, with the main ore-body averaging from 7 to 12 feet wide. Surface development work showed azurite and malachite with some copper oxides at the surface, which changed at a shallow depth to sulfide-mineralization. The vein at the main shaft is in the gossan, bearing N65 degrees E and dipping irregularly. Extending from the shaft to the north is a huge dump that is currently supporting 10-15 foot pine trees which probably accounts for the fact that the mine is not shown on the topo maps nor is the road. The workings are hosted in meta-andesite that are reported to be near a contact with granitic rocks (not observed in the field). The main workings are very near the eastern boundary of the McTarnahan Hill 7-1/2 topo and about a mile and a half east of McTarnahan Hill, not 3 miles southeast as reported in the NBMG Bull 75.

REMARKS: The MRDS file located the United Mine at the same location as the Utopian Mine as shown on the Mineral peak 7-1/2, this was probably done because Bulletin 75 described the United Mine as being 3 miles southeast of McTarnahan Peak, which is incorrect. Some other incongruities are; no shafts at the Utopian Mine Site and the wrong geology.

SAMPLE SITE: 3715

REFERENCES: Moore, J.G., Geol. & Min. Dep., Lyon, Douglas, Ormsby Counties, Nevada, NBMG Bull 75, 1969.

Weed, E.H., The Mines Handbook, 1918.

Overton, T.D., Mineral Resources Douglas, Ormsby, Washoe Counties, NBMG Bull 46, 1947.

EXAMINER: Jack Quade

DATE VISITED: 5-24-89

Attachment:

PROPERTY NAME: Unnamed prospect

OTHER NAMES:

MINING DISTRICT: Delaware

COUNTY: Carson City

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Mineral Peak

OWNERSHIP: Unknown

SEC: 19 ,T: 14N ,R: 22E

North: 4327379 East: 278872

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Area is covered with dozer-cuts for miles.

GEOLOGY: Dozer cut opened a 100 by 75 foot pit in sediments adjacent to a granite contact. Small vein in the bottom of the pit consists of silicified gouge, quartz and copper oxides.

REMARKS: Old and new dozer cuts for miles in all directions.

SAMPLE SITE: 3719

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-24-89

Attachment:

PROPERTY NAME: Unnamed shaft
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: New Empire
OWNERSHIP: Unknown
SEC: 24 ,T: 15N ,R: 20E
North: 4335985 East: 268203
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Inclined shaft and prospects
GEOLOGY: A N85 degrees W-striking, 55 degrees SW-dipping, 5-foot vein follows a fault contact between a marble and a recrystallized tuff, both of Triassic age. The incline was sunk on the dip-slope of the marble but must have cut back to the vein at depth because the vein material on the dump came from the fissure vein. The vein material consists of some gossan-like, iron-stained highly oxidized material and stringers of quartz breccia.
REMARKS: Access to the area is from Brunswick Canyon.
SAMPLE SITE: 3659
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-12-89
Attachment:

PROPERTY NAME: Utopian mine
OTHER NAMES: Wesely Mining
MINING DISTRICT: Delaware
COUNTY: Douglas
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mineral Peak
OWNERSHIP: Jack Bright, et al, P.O. Box 4179, Carson City, NV 89702 (leased to Wesley Mining Co, Reno, NV)
SEC: 23 ,T: 14N ,R: 21E
North: 4327723 East: 275401
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit and prospects.
GEOLOGY: A two-foot-wide, flat vein in meta-volcanics is exposed fifteen feet into a adit. Vein is reported to be up 30% tourmaline, 76% silica, with pyrite and .5 oz. gold values. Sample 3716 was taken from the vein inside the adit.
REMARKS: Currently being mapped by Wesely Mining Co.
SAMPLE SITE: 3716
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-14-89
Attachment:

PROPERTY NAME: Vic #1 claim
OTHER NAMES:
MINING DISTRICT: Delaware
COUNTY: Carson City
MINERAL COMMODITY(IES): gold, silver(?)
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Dayton
OWNERSHIP: Ehni Enterprise, Carson City, NV 89702-4002
SEC: 22 ,T: 15N ,R: 21E
North: 4337318 East: 274253
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft and prospects
GEOLOGY: A 50-foot prospect shaft follows a 4-foot vein in a fissure bearing N 80 degrees E and dipping 65 degrees NW hosted in granite. Similar prospects in the area are common wherever granite is in outcrop.
REMARKS: Access to the area is poor.
SAMPLE SITE: 3665
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-12-89
Attachment:

PROPERTY NAME: Section 13 adits
OTHER NAMES:
MINING DISTRICT: Desert Mountains area
COUNTY: Lyon
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Vein
QUAD SHEET: Silver Springs S.
OWNERSHIP: Unknown
SEC: 13 ,T: 16N ,R: 24E
North: 4346972 East: 306302
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Two adits
GEOLOGY: The northern most adit follows a N 70 degrees W-striking, 6 inch vein while a subparallel vein of several inches was being mined from a second adit. Both are hosted in a deeply weathered granite.
REMARKS:
SAMPLE SITE: 4292
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 7-6-89
Attachment:

PROPERTY NAME: Section 33 prospects

OTHER NAMES:

MINING DISTRICT: Desert Mountains area

COUNTY: Lyon

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Parker Butte

OWNERSHIP:

SEC: 33 ,T: 16N ,R: 26E

North: 4341453 East: 320892

PRODUCTION: unknown

HISTORY: unknown; square nails on dump date earliest work prior to 1900, most recent work probably 1920's or 1930's

DEVELOPMENT: Two shafts and several pits and trenches; deepest shaft is inclined, about 50-feet-deep; eastern shaft has timbered collar, is vertical and only 15-feet-deep; evidence of old camp between the two shafts.

GEOLOGY: The inclined shaft was sunk on a N30 to 40E-striking, 50-degree NW-dipping shear zone occupied by a 2- to 3-foot-thick, brecciated quartz vein. The vein is stained with cinnamon-brown limonite, vein steepest at the shaft collar, it rolls to about 50-degree NW dip 15 feet below collar. Vein is brecciated, silica-cemented, contains clots of silvery-gray sulfide minerals, probably galena and/or argentite. Chloritized metavolcanic rock occurs in the footwall of the shear structure; aplitic intrusive rock forms the hangingwall. The prospect workings are on the crest and north slope of a small hill composed of aplitic rock which has intruded meta-rhyolite tuff; the metavolcanic is now mainly composed of chlorite, quartz, and dark-green amphibole. Relic bedding or flow-banding in the metavolcanic trends NE and dips steeply south. The east end of the small hill is mainly metavolcanic, the west end is buff-appearing aplitic rock with some coarse-grained granitic porphyry; these rocks are cut by quartz veins and some narrow aplite dikes.

REMARKS:

SAMPLE SITE: 4357, 4358, 4359

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: October 2, 1989

Attachment:

PROPERTY NAME: Smelter prospects
OTHER NAMES:
MINING DISTRICT: Desert Mountains area
COUNTY: Lyon
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Wabuska
OWNERSHIP:
SEC: 17 ,T: 15N ,R: 25E
North: 4337215 East: 309839
PRODUCTION: unknown
HISTORY: unknown

DEVELOPMENT: Inclined winze and stoping on south slope of hill, two shallow, vertical shafts on north slope of hill, trenching in area between.

GEOLOGY: Workings are along a shallow-dipping fault zone which separates thin-bedded argillite (hornfels) in the footwall from greenish meta-andesite in the hangingwall. The breccia-rubble zone along the fault is about 15-feet thick where exposed, is composed of rock rubble, hematite, gouge. On the north slope of the hill, the fault strikes N40W and dips to the the SW. On the south slope, the zone strikes N40E and dips 15- to 20-degrees NW. Workings extending from the southern winze followed vuggy, brecciated quartz veins which occur in gossan lenses within the shear zone. The veins range from 1-inch to 1-foot in thickness, contain clear and white, terminated quartz crystals along with limonite and specular hematite.

REMARKS:

SAMPLE SITE: 4360

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: October 3, 1989

Attachment:

PROPERTY NAME: White Horse diatomite prospect

OTHER NAMES:

MINING DISTRICT: Desert Mountains area

COUNTY: Lyon

MINERAL COMMODITY(IES): diatomite

TYPE OF DEPOSIT: bedded

QUAD SHEET: Wabuska

OWNERSHIP: Clark J. Guild, John A. Baker (1968)

SEC: 2,3,10,11 ,T: 15N ,R: 25E

North: 4340700 East: 313300

PRODUCTION: none

HISTORY:

DEVELOPMENT: Several small prospect pits

GEOLOGY: Diatomite occurs as a thin bed, perhaps 50 feet thick, within a 150- to 200-foot thick bed of volcanic ash, tuff, and minor, coarse sand. This sedimentary horizon was deposited over a a fine-grained volcanic flow rock and is overlain by a thick sequence of andesitic flows. Several major faults cross the property, causing the entire sequence to be broken into a series of tilted fault blocks. In most exposures, the diatomite bed dips 50- to 60-degrees to the northeast. In the northern part of the property, the steep dip carries the diatomite horizon under thick volcanic rocks; to the south, across an east-west-striking fault, the diatomite crops out in a down-faulted block.

REMARKS: Extensive faulting has, in effect, destroyed any potential for economic production of diatomite from this property

SAMPLE SITE:

REFERENCES: Tingley, unpublished report, 1968

EXAMINER: J. V. Tingley

DATE VISITED: September 27, 1968

Attachment:

PROPERTY NAME: Dixie Comstock mine

OTHER NAMES:

MINING DISTRICT: Dixie Valley

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone, hot-spring

QUAD SHEET: Dixie Hot Springs

OWNERSHIP:

SEC: ,T: ,R:

North: 4413229 East: 413056

PRODUCTION:

HISTORY:

DEVELOPMENT: Large, open stopes, caved shaft and newer, vertical, timbered shaft; mill building and misc. buildings and trailers are located north of the mine.

GEOLOGY: Stope west of the new shaft is caving along a N60E-striking, 60-degree SE-dipping fracture zone; other fracture zones to west of stope trend N60-70W and N20W; both are near-vertical. The NE-trending fault may be related to range-front structures; silicification along NW-trend intersects or is cut by NE-trending range-front fault. Large outcrop of silicified breccia crops out at intersection; rock is mass of interconnecting, vuggy quartz stringers and webbs, vugs are filled with clear, accicular quartz crystals. Outcrop is flooded with silica, clots of silicified rock floating in a silica matrix.

REMARKS: Santa Fe Pacific Mining Co. has done trenching and drilling along with a minor amount of underground work on the property in the last year or two.

SAMPLE SITE: 4349

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 31, 1989

Attachment:

PROPERTY NAME: South Dixie Comstock shaft

OTHER NAMES:

MINING DISTRICT: Dixie Valley

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone, hot-spring

QUAD SHEET: Dixie Hot Springs

OWNERSHIP:

SEC: ,T: ,R:

North: 4411893 East: 413172

PRODUCTION:

HISTORY:

DEVELOPMENT: Vertical shaft, timbered at collar, est. to be 40-50 feet deep.

GEOLOGY: Shaft is collared in alluvium; dump material is mostly gossan composed of large cellular clots of iron-oxides with some clasts of white vein quartz; has disseminated pyrite in quartz.

REMARKS: No structure visible, shaft probably prospects the range-front fault.

SAMPLE SITE: 4350

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 31, 1989

Attachment:

PROPERTY NAME: CoCo claim
OTHER NAMES:
MINING DISTRICT: Eagleville
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Big Kasock Mountain
OWNERSHIP:
SEC: 30 ,T: 14N ,R: 33E
North: 4325001 East: 301304
PRODUCTION: none
HISTORY:
DEVELOPMENT: small prospect shaft, 10x10x15-feet deep
GEOLOGY: Brecciated, white quartz vein along N60E-striking, 60-degree NW-dipping shear zone in greenish phyllite. Vein is pod-like, about 6 inches of copper-oxide-stained gossan with brecciated quartz, some melaconite, specular hematite. Vein pinches out to southwest. Lots of green copper oxide staining, some crystalline coatings of malachite.
REMARKS:
SAMPLE SITE: 4329
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 24, 1989
Attachment:

PROPERTY NAME: Eagle Hill prospect
OTHER NAMES: Eagleville mine
MINING DISTRICT: Eagleville
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, barite
TYPE OF DEPOSIT: vein
QUAD SHEET: Slate Mountain
OWNERSHIP:
SEC: ,T: ,R:
North: 4320270 East: 391907
PRODUCTION: minor
HISTORY:

DEVELOPMENT: Adit driven north into slope, shafts to north, possibly connecting with the adit, cuts across structure

GEOLOGY: Adit driven on N05W-striking, 65-degree NE-dipping, about 10-foot-wide brecciated quartz barite vein. Central 3 to 4 feet zone of white barite with iron-oxide stained quartz rubble cemented by quartz, silica-flooded zone on footwall with some clots chalcedonic quartz. Wallrock is meta-andesite which is bleached and kaolinized for about 3 feet into the hangingwall of the structure; footwall rock is not visible. Vein rolls to 70-degree SW dip within 10 feet to north of NE-dipping segment. No identifiable metallic minerals were noted, but yellow-green oxide minerals coat vein fragments and may indicate presence of lead or antimony minerals. Manganese-oxides also are present. About 150 feet northwest of adit, a N20W-striking, vertical shear zone is exposed in fine-grained, silicified felsite dike which cuts meta-andesite. This rock has limonite crusts coating healed fracture surfaces and jarosite crystals on fractures and cavities throughout.

REMARKS: These prospects may actually be the outcrop area of the Eagleville vein, exploited through underground workings from lower on the southwest slope of Eagle Hill

SAMPLE SITE: 4324, 4325

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 24, 1989

Attachment:

PROPERTY NAME: Eagleville mine

OTHER NAMES:

MINING DISTRICT: Eagleville

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: vein

QUAD SHEET: Slate Mountain

OWNERSHIP:

SEC: ,T: ,R:

North: 4320155 East: 391826

PRODUCTION:

HISTORY:

DEVELOPMENT: Line of timbered shafts, headframe, large dumps

GEOLOGY: Rock on mine dumps consists of vuggy, gossany, white vein quartz with boxworks, some pyrite clots; wallrock is a greenish meta-andesite, some chlorite is present in both wallrock and the vein material, epidote films coat some fracture surfaces. No structure is visible, but shafts are aligned along a N05W trend. Barite is present in the vein material.

REMARKS:

SAMPLE SITE: 4326

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 24, 1989

Attachment:

PROPERTY NAME: Harry Mann mine (?)
OTHER NAMES: CoCo claims
MINING DISTRICT: Eagleville
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Big Kasock Mountain
OWNERSHIP:
SEC: 29 ,T: 14N ,R: 33E
North: 4325027 East: 302237
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Considerable bulldozer work, drift along structure to SW
GEOLOGY: Silicified, sheared phyllite along shear zone/contact between phyllite (to west) and greenish andesite breccia. Shear strikes N35E, dips 60-degrees SE. Shear zone is about 25 feet wide, has white quartz ladder veins, up to 6 inches thick, in footwall; veins are flat-dipping and extend away from gossany zone in footwall of sheared contact.
REMARKS: Area has been dozed in the last few years
SAMPLE SITE: 4330
REFERENCES: Schrader, 1947, p. 223
EXAMINER: J.V. Tingley
DATE VISITED: July 24, 1989
Attachment:

PROPERTY NAME: Buffalo Hump mine

OTHER NAMES:

MINING DISTRICT: Eastgate

COUNTY: Churchill

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Buffalo Summit

OWNERSHIP:

SEC: 15 ,T: 15N ,R: 37E

North: 4334700 East: 430200

PRODUCTION:

HISTORY: discovered sometime before 1936

DEVELOPMENT: Adit and connected stopes, surface pits and trenches, large cut along open stope

GEOLOGY: Wrokings explore a large area of iron-oxide staining in kaolinized, non-welded, lithic tuff; silicification and brecciation along N50W (?) structure, dips SW, the breccia is cemented by quartz, drusy quartz crystals coat vugs, manganese oxide points on tips of quartz crystals

REMARKS: See Garside description

SAMPLE SITE: 3476, 0423

REFERENCES:

EXAMINER: L. J. Garside; J. V. Tingley

DATE VISITED: August 1981, April 1989

Attachment:

PROPERTY NAME: County Line shafts

OTHER NAMES:

MINING DISTRICT: Eastgate

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Breccia

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 17 ,T: 14N ,R: 37E

North: 4325641 East: 427224

PRODUCTION:

HISTORY:

DEVELOPMENT: Deep vertical shaft on the north and two inclined prospect shafts to the south. The northern shaft is collared in talus, timber is rotted and collar is caving--can't see down.

GEOLOGY: The dump of the northern shaft is composed mainly of rhyolite tuff breccia, hydrothermal breccia cemented with silica. Some clasts and vein veins of vuggy, white, chalcedonic silica, some limonite staining. The southeast inclined shaft was dug on a N10W, 70 degree SW-dipping sheeted zone in tuff breccia, fracture surfaces are iron-oxide stained. Rock on the central prospect dump has clasts of coarse-grained volcaniclastic rock within the breccia

REMARKS: Drill roads and drill sites extend from this area north to the Last Chance claim area and south to the Baxter claims

SAMPLE SITE: 4023

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 4, 1989

Attachment:

PROPERTY NAME: Double Eagle mine
OTHER NAMES: Gold Ledge mine, Gold Ledge group, Gold Northern mine, Williams Gold-Silver mine
MINING DISTRICT: Eastgate
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein, breccia
QUAD SHEET: Eastgate
OWNERSHIP:
SEC: 12 ,T: 16N ,R: 36E
North: 4345960 East: 424300
PRODUCTION: small
HISTORY: Discovered by E. W. Baker in 1906; worked intermittently by individuals and small companies; Monarch Gold Ledge Mining Co. erected 50TPD mill in 1934
DEVELOPMENT: several shafts and adits, cuts on surface, remains of hoist in place on upper, inclined shaft
GEOLOGY: Lower adit at camp follows a N22E, 70-80 degree SE-dipping structure in welded ash-flow tuff. Quartz vein, 3-6 inches thick, follows structure, vein shows some lamellar quartz-after-calcite structure, wispy manganese oxide streaks and fine-grained pyrite occur in dense vein material. A zone on each side of the vein is brecciated-about 200 feet wide, evidence of hydrothermal brecciation. The zone of brecciation extends to the northeast where it was explored through to other major shafts; zone projects on to the northeast to the Eastgate mine. The breccia shows multiple stages of brecciation, contains fragments of welded tuff, ash, and earlier-formed breccia. The quartz matrix contains pyrite cubes, has jarosite crystals on fracture surfaces, drusy, clear quartz crystals coat vugs in the breccia.
REMARKS: There has been recent exploration activity in the area surrounding the old mine camp but no activity on the old property. New drill roads and sites have been recontoured and reclaimed
SAMPLE SITE: 3474
REFERENCES: NBMG Bulletin 83; USBM IC 7093
EXAMINER: J. V. Tingley
DATE VISITED: April 10, 1989
Attachment:

PROPERTY NAME: Eastgate mine
OTHER NAMES: Eastgate group; Eastgate, Sunny Jim, Sunny Time claims
MINING DISTRICT: Eastgate
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein, breccia
QUAD SHEET: Eastgate
OWNERSHIP:
SEC: 12 ,T: 16N ,R: 36E
North: 4346110 East: 424420
PRODUCTION:
HISTORY: Notice on portal states "since 1906"
DEVELOPMENT: Two adits, one to NE and one to SE to cut structure, NE-trending adit is caved.
GEOLOGY: The adits cross-cut to the main breccia zone, wall rock is brecciated and kaolinized. Chunks of ore on the dumps show brecciated, chalcedonic vein quartz with needle-like pseudomorphs, some dark sulfides are present.
REMARKS:
SAMPLE SITE: 3475
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 10, 1989
Attachment:

PROPERTY NAME: Gold Trail group

OTHER NAMES:

MINING DISTRICT: Eastgate

COUNTY: Churchill

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Buffalo Summit

OWNERSHIP:

SEC: 36 ,T: 16N ,R: 37E

North: 4339940 East: 433420

PRODUCTION:

HISTORY:

DEVELOPMENT: Several inclined shafts and trenches, all caved; large area has been bulldozed but very little, if any, mining has taken place

GEOLOGY: A large area of kaolinization occurs in volcaniclastic rocks which are in contact with blocks of granitic rocks. An area about 1000' by 1000' has been scraped and trenched; lots of bleaching but no obvious mineralization; area is iron-oxide stained, lots of clay present. The area is described as being within a large caldera, the granitic rocks are intracaldera blocks and are not in place (H. F. Bonham, personal comm.)

REMARKS:

SAMPLE SITE:

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 10, 1989

Attachment:

PROPERTY NAME: Last Chance and Chogiak claims

OTHER NAMES: Inspiration Gold project

MINING DISTRICT: Eastgate

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Breccia

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 17 ,T: 14N ,R: 37E

North: 4326264 East: 426880

PRODUCTION:

HISTORY:

DEVELOPMENT: Timbered inclined shaft, stoping from shaft, second shaft 50 feet to the southeast, pits to the northwest

GEOLOGY: Shafts are collared in lithic-rich ash-flow tuff; tuff is buff to greenish, contains angular fragments of tuff within it, has large pumice cavities, some filled with secondary minerals. Dumps are mainly kaolinized tuff. Pit to north of north shaft shows N40W, 40 degree SW-dipping contact zone, brecciated tuff to the SW, rubbly lithic tuff breccia to the NE. The hangingwall of this structure is brecciated, cut by hydrothermal microbreccias. The hydrothermal breccias are cemented by brick red hematite and silica. Down the wash to the east of this location, large areas of brecciated tuffs crop out on the north side of the wash; some breccias are cut by lamellar quartz veins. Veins are vuggy, up to 3 inches thick, occur on randomly-oriented fracture surfaces. Some breccia masses appear to occur along flow banding.

REMARKS: A considerable amount of widely-spaced exploration drilling has been done in the past one or two years in the area between here and Chalk Wells to the north and the Baxter mine to the south. Hole spacing is on the order of 500 to 1000 feet along the general northerly trend. Many of the drill sites have been "reclaimed"

SAMPLE SITE: 4022

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 4, 1989

Attachment:

PROPERTY NAME: Rob claims

OTHER NAMES:

MINING DISTRICT: Eastgate

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Breccia

QUAD SHEET: Burnt Cabin Summit

OWNERSHIP:

SEC: 16 ,T: 15N ,R: 36E

North: 4335554 East: 420087

PRODUCTION:

HISTORY:

DEVELOPMENT: Vertical shaft, about 50 feet deep, pit to the west

GEOLOGY: Shaft sunk on N80W, 80 degrees NE-dipping shear zone in silicified rhyolite tuff breccia, rock is almost totally replaced with quartz; original quartz phenocrysts and biotite casts are still visible in the rock. Breccia zone is about 50 feet wide, crops out as a rugged knob on the top to the hill to the southeast. Water seep from the pit west of the shaft (water is standing in the shaft), the pit dump is coated with white siliceous material deposited from the water (?), The entire hill is underlain by silicified, sheeted, rhyolite tuff. The tuff forms large, barren outcrops cut by joints and fractures which are flooded with iron oxides, oxide coatings are thin. The main fractures strike N70W and N50E; silicified ribs form along both fracture sets.

REMARKS:

SAMPLE SITE: 4024

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 4, 1989

Attachment:

PROPERTY NAME: Blue Gem No. 1 claims
OTHER NAMES: Green Boy claims
MINING DISTRICT: Eastside area
COUNTY: Mineral
MINERAL COMMODITY(IES): gem stone (turquoise)
TYPE OF DEPOSIT: vein and nodule turquoise
QUAD SHEET: Basalt
OWNERSHIP:
SEC: ,T: 2N ,R: 33E
North: 4212568 East: 386139
PRODUCTION: Unknown
HISTORY: Unknown, but if they are the Blue Gem Claims they were discovered by Lee Hand in 1931.
DEVELOPMENT: Shallow adit and prospects.
GEOLOGY: A line of workings follows a N 20 degrees E-striking shear in thin-bedded shales of Ordovician Age. These workings could very well have been for turquoise but none was noted in the many trenches, pits or prospects.
REMARKS:
SAMPLE SITE: 3730
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: Eastside mine
OTHER NAMES: Copper King mine, Parker Mining Co.
MINING DISTRICT: Eastside area
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, silver, molybdenum, mercury, zinc
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Basalt
OWNERSHIP: John Heiser of Reno, Andy Drumm of Fallon, Parker Mining Co., 5 Third Street, Room 909, San Francisco, CA 94103
SEC: ,T: 3N ,R: 33E
North: 4216505 East: 383478
PRODUCTION: Loading facilities but no record of production.
HISTORY: Unknown
DEVELOPMENT: Four shafts, three adits, and prospects.
GEOLOGY: Three or four one- to four-foot-thick, copper-stained quartz veins occur in a 100-foot-wide zone of breccia; veins and breccia layers parallel bedding in chert, limy sandstone, and limestone of Ordovician age. The main workings are along a 4-foot vein in a shear zone. The vein is highly oxidized, iron-stained, silicified and brecciated; it strikes N 5 degrees E, is near vertical, and is hosted in limy sediments.
REMARKS: Fair road west of Highway 95.
SAMPLE SITE: 3731
REFERENCES: Ross, D.C., 1961, Geology and Mineral Deposits of Mineral County, Nevada NBMG Bull 58.
EXAMINER: Jack Quade
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: Eastside prospects
OTHER NAMES:
MINING DISTRICT: Eastside area
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Breccia and fissure vein
QUAD SHEET: Basalt
OWNERSHIP: Unknown
SEC: ,T: 3N ,R: 33E
North: 4215687 East: 383620
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Small prospects
GEOLOGY: Small prospect pits along a N15 degrees E-striking, 80NW-dipping, 3-foot vein in a shear zone hosted in Ordovician limestone and chert. Vein consisted of highly broken silicified quartz and breccia with minor copper oxides.
REMARKS:
SAMPLE SITE: 3732
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: Intergal #1 prospect
OTHER NAMES:
MINING DISTRICT: Eastside area
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury (?)
TYPE OF DEPOSIT: hot-spring (?)
QUAD SHEET: Basalt
OWNERSHIP: Spectrum Exploration, Box 660, Hawthorne, NV 89415
SEC: ,T: 2N ,R: 33E
North: 4213803 East: 379666
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospect
GEOLOGY: Small prospect pit and later dozing explores a 3-foot-wide N 70 degrees
E-striking vein, hosted in chert of Ordovician age. The vein is a silicified
breccia without visible mineralization.
REMARKS: Fair road west of Highway 95.
SAMPLE SITE: 3733
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-30-89
Attachment:

PROPERTY NAME: Noquez mine
OTHER NAMES:
MINING DISTRICT: Eastside area
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: hot-spring (?)
QUAD SHEET: Basalt
OWNERSHIP:
SEC: ,T: 3N ,R: 33E
North: 4214489 East: 379850
PRODUCTION: A few flasks
HISTORY: Discovered in 1940 by Noquez.
DEVELOPMENT: Three adits totaling 500 feet, a glory hole, and several pits and trenches.
GEOLOGY: According to Bailey (1944), cinnabar occurs in veinlets, and as a coating on boulders in fault zone in silicified tuff. This description, however, does not fit the geologic conditions at this location. The main workings are in a high-angle fault bearing N 55 degrees E that dips irregular; the fault is in limestone, chert, and shales of Ordovician age. There are some Tertiary Tuffs to the east but not along the fault in the vicinity of the main camp. The mineralization includes visible cinnabar, gypsum and pyrite.
REMARKS:
SAMPLE SITE: 3734
REFERENCES: Ross, D.C., 1961, Geology and Mineral Deposits of Mineral County, Nevada; NBMG Bull 58.
Bailey, E.H., & Phoenix, D.A., 1944, Quicksilver Deposits in Nevada NBMG Bull 41.
EXAMINER: Jack Quade
DATE VISITED: 5-31-89
Attachment:

PROPERTY NAME: Spring deposit
OTHER NAMES:
MINING DISTRICT: Eldorado
COUNTY: Lyon
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: hot-spring
QUAD SHEET: Dayton
OWNERSHIP: Unknown
SEC: 36 ,T: 16N ,R: 21E
North: 4342532 East: 277896
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Prospects and trenches, and a cistern.
GEOLOGY: Two limestone knobs are capped by spring deposits that have been actively mined by prospects and trenches. The material being mined included calcified breccia and silicified, iron-stained breccia with possible mercury. Both of the cisterns were completely lined by cut stones.
REMARKS: The spring was probably flowing when the cisterns were first built.
SAMPLE SITE: 3766
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 6-7-89
Attachment:

PROPERTY NAME: Ajax vein
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Bell Canyon
OWNERSHIP: Unknown
SEC: 31 ,T: 16N ,R: 34E
North: 4339400 East: 397650
PRODUCTION: Unknown
HISTORY: Looks to have been part of the 1906-1910 exploration.
DEVELOPMENT: Several shallow and one main adit on the Ajax Vein.
GEOLOGY: The Ajax vein has been explored by a series of minor prospects, mostly shallow adits, along its strike. A single 100-foot long adit cross-cuts the vein but there is no evidence of mining and the vein, where exposed, seems barren. Sample 3820 was selected from the dumps and contained the best looking vein material present.
REMARKS:
SAMPLE SITE: 3820
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-10-86
Attachment:

PROPERTY NAME: Centurion prospect

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Drumm Summit

OWNERSHIP: Anthony L. Payne, Reno

SEC: 4 ,T: 16N ,R: 34E

North: 4347860 East: 400320

PRODUCTION: No record of production from the claim block

HISTORY: Wyoming shaft sunk in 1906-07 by Wyoming Fairview Mining Co., additional work in 1908, surveyed for patent but not patented, located in 1984 by A. L. Payne, Reno.

DEVELOPMENT: Several shafts and prospects, the largest (the eastern workings known as the Wyoming Shaft) consists of a 212 foot incline with a 250 foot drift at the bottom and a second shallower shaft about a half mile west.

GEOLOGY: The early 1900's era workings (now covered by the Centurion Claim block) are aligned along N75 degrees W bearing vein that can be traced on the surface for about .6 mile between the two major workings; it was suggested by Payne (1985) that the vein may project further in both directions along the strike. The steeply-dipping quartz vein is reported to average about 6 feet in width where it has been observed. The vein is hosted in volcanics that form the bedrock of a pediment. The vein, therefore, is usually covered by a thin veneer of soils and gravels except at the areas of early exploration. The exploration target is a precious metal ore shoot that may occur anywhere along the strike length of what Dr. Payne thinks may be a Tonopah-type vein system.

Our sample 3917 was from the dumps of the Wyoming Shaft on the southeast end of the vein and consisted of iron-stained quartz vein with fine-grained and coarse-grained pyrite, chalcopyrite and other sulfides. A second sample, 3918, was chipped from the exposed vein and collected from the dump of a small prospect atop an inselberg called Alpha Hill. Sample 3917 assayed 20 ppm silver, 750 ppm arsenic, .10 ppm gold and 50 ppm copper. Sample 3918 assayed 7 ppm silver.

REMARKS:

SAMPLE SITE: 3917, 3918

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 10-6-86

Attachment:

PROPERTY NAME: Dromedary Hump mine
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: vein
QUAD SHEET: Bell Canyon
OWNERSHIP:
SEC: ,T: ,R:
North: 4345204 East: 399374
PRODUCTION: moderate
HISTORY: see Schrader, Shamberger
DEVELOPMENT: Several vertical shafts along strike; remains of hoisting works, remains of burned mill
GEOLOGY: Where exposed near collar of the western-most shaft, vein is about 2 to 3 feet wide, strikes N80W, dips 70SW, slickensides on footwall of the vein rake about 45 degrees to the east. Wall rock is fractured and iron-oxide-stained. The footwall is brecciated and laced with quartz veinlets and pods; quartz crystals line open spaces in vein. The vein plus the silicified rock in its walls for a prominent ledge that crops out along trend above the line of mine workings. Vein material found on dumps near the upper shafts contains clouds of disseminated pyrite and considerable fine-grained pyargarite. Rock on the eastern-most adit dump is a highly-silicified breccia containing fine-grained pyrite throughout; vein here is not as prominent but is a wide breccia zone laced with vuggy quartz stringers.
REMARKS: The most recent work on this property appears to have been done from the eastern adit. Evidence of the recent fire caused by Navy bomb is apparent around the western shafts and mill area.
SAMPLE SITE: 4316
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 20, 1989
Attachment:

PROPERTY NAME: East Nevada Crown mine
OTHER NAMES: Crown mines, Port and Sampson, Rex claims
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: L. E. Spriggs, Spectrum Exploration, P.O. Box 610, Hawthorne, NV
SEC: 20 ,T: 15N ,R: 34E
North: 4334540 East: 398020
PRODUCTION: Unreported but not thought to be big from shaft
HISTORY: Workings date from the period 1906-1912
DEVELOPMENT: Two shafts. One reported to be 250 feet with a dump that suggests the workings may be larger possible drifts, etc., off the shaft. Another shaft 400 feet to the north is smaller.
GEOLOGY: The larger, southern, 250-foot deep shaft was sunk on an intercept of the N-S trending shear (visible along the east side of the canyon) and the large N70 degrees W vein that is at least 20 feet thick. All the workings are in andesite. The shaft is on the eastern edge of the canyon and the dump materials do not contain significant mineralization. In fact, the large dump looks very barren. Some of the sample 3974 came from the dump while the rest came from the shear zone and included breccia, vuggy open-spaced quartz with some pyrite mineralization. The second, smaller shaft to the north was sunk on a NE-trending quartz vein and is near a shear that trends N-S through the canyon. One of the veins bears N5 degrees E, dips 70 degrees E, and intercepts a N65 degrees W vertically dipping vein that is 6-10 feet wide. Material from the veins consist of sulfides in a matrix of andesite breccia. Other minerals include quartz and adularia in a vuggy matrix with sulfides. Sample 9375 from this dump ran 1.1 ppm gold.
REMARKS:
SAMPLE SITE: 3974, 3975
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-18-86
Attachment:

PROPERTY NAME: Grand Central mine

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP:

SEC: 31 ,T: 16N ,R: 34E

North: 4340550 East: 397220

PRODUCTION: Some production but the exact amount unknown

HISTORY: The mineralization was discovered in 1915 by J. A. Nave and Henry Bartell.

DEVELOPMENT: Consists of a 50 foot shaft, a 40 foot crosscut adit, and drifts along the strike of the vein. See sketch.

GEOLOGY: The country rock is dominately a rhyolite flow breccia containing, at least in the vicinity of the mine, disseminated, minute cubes and grains of pyrite. I believe the pyrite to be a local situation, possibly related to the presence of a rhyolite intrusion, although the intrusive margins could not be identified. The N80 degrees W vein is dominately silicified rhyolite breccia with stringers of vuggy clear quartz continuing silver sulfide specks and wispy, gray streaks. The quartz veining dominates the structure in the lower portion of the workings but the overall structure itself narrows with depth. Schrader visited the "meager development work" in 1916 at a time when the owner had "just shipped 2-1/2 tons of mostly silicified ore that ran 48 oz. of silver and \$11 in gold to the ton..." Schrader's opinion of the workings was that they "do not seem to have continuity in either horizontal extent or depth." Our sample 3825 chipped from portions of the vein ran 2000 ppm silver and 12 ppm gold. I feel that, contrary to Schrader's opinion, the property may warrant drilling.

REMARKS:

SAMPLE SITE: 3825

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-10-86

Attachment:

PROPERTY NAME: Jelinek mine
OTHER NAMES: Big Ledge mine
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Bell Canyon
OWNERSHIP:
SEC: 32 ,T: 16N ,R: 34E
North: 4339960 East: 398320
PRODUCTION: Part of twenty-nine tons shipped 1909-1918.
HISTORY: Discovered by Horgan and D'Arcy in 1906 sold to Davis who worked the mine until the 1920's.
DEVELOPMENT: A shaft (caved) and adit along the trace of the Big Ledge vein; overlooks Mizpah canyon and is atop the ridge; more workings below towards the canyon but further down the hill; more prospects to the southwest.
GEOLOGY: The country rock is silicified, light-colored volcanic rock, mostly rhyolite and latite cut by rhyolite and, in places, by andesite dikes. The Big Ledge vein was described by Schrader as the pioneer vein in the camp, lying in the east central portion of the original claim block and having an exposed strike westward almost entirely through the length of the Big Ledge and Big Ledge #1 claims. The vein strikes N70degrees E and dips about 80 degrees S or in places stands vertically. The vein was opened by several different adits, from Mizpah Canyon and from the ridge-top by a shaft and adit (our sample site 3823). At that side, the vein is in a rhyolite breccia and the workings were sunk on a pod-like lense of fine-grained comb quartz that is about 30-40 feet wide, strikes N65 degrees E and is close to vertical. The sulfide specks, and the matrix of the breccia; it contained 2000 ppm silver and 14 ppm gold. Schrader reported the lower workings on the side of Mizpah Canyon to be in good ore, following the vein which at that point was from 2-20 feet in width. His view of the vein was that it would remain strong at depth. Sample 3824 was taken from a prospect several hundred yards to the southwest of 3823 but along the
REMARKS: The Jelinek mine is that shown on the Mizpah mine on the Bell Canyon 7-1/2 map, the Mizpah mine is actually .4 tenths of a mile further to the north in what is known as Mizpah Canyon.
SAMPLE SITE: 3823, 3824
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-10-86
Attachment:

PROPERTY NAME: Jelinek mine (west)

OTHER NAMES: Big Ledge mine

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal veins

QUAD SHEET: Bell Canyon

OWNERSHIP:

SEC: 32 ,T: 16N ,R: 34E

North: 4339685 East: 397900

PRODUCTION: Twenty-nine tons, shipped between 1909 and 1918.

HISTORY:

DEVELOPMENT: Ten claims, which, by 1920 contained about 1000 feet of underground work in tunnels and drifts, about what exist today.

GEOLOGY: The country rock consists of siliceous, light-colored volcanic rocks, mostly rhyolites and latites cut by rhyolite and in places, by andesite dikes. Schrader, on a visit in 1920, described the vein system: "they vary from 2 to 20 feet in width with bold outcrops of the veins and silicified wall rock. The silicification of the wall rock is mostly on the south or hanging wall side. In places where the vein croppings pinch or vanish the course of the veins and fissures continues to be well marked by prominent reefs of the silicified wall rock. The veins in large part appear to occupy fissures but the deposits also include replaced, adjacent wall rock." The veins consist mainly of vein quartz, calcite and fragments of silicified and replaced rhyolite breccia. Schrader described the vein materials as quartz associated with considerable adularia, both at times replacing calcite. The silver mineralization occurs as specks disseminated in the white quartz. Schrader described one of several periods of mineralization as "the ore minerals and silica were carried together while replacing calcite and rhyolite breccia with quartz." Sample 3818 is from a dump associated with an open stope and adit on the west side of Big Ledge #2. Assays

REMARKS:

SAMPLE SITE: 3818, 3819, 3822, 3976, 3977, 3978, 3979, 3980

REFERENCES:

EXAMINER: Jack Quade/Joe Tingley

DATE VISITED: 10-19-86

Attachment:

PROPERTY NAME: Jet claims
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Stock work veining
QUAD SHEET: Bell Canyon
OWNERSHIP: Spectrum Exploration, Hawthorne, NV
SEC: 12 ,T: 15N ,R: 33-1/2E
North: 4337330 East: 395470
PRODUCTION: None
HISTORY: Old workings
DEVELOPMENT: Prospects
GEOLOGY: Stockworks veins in latite host rock in a pedimented area exposed by recent erosion. Minor iron-stained quartz veining present in an area of strong argillic alteration. Minor amounts of wispy-gray streaks seen within some of the vein quartz. Sample 3817 was collected from a small prospect adit. The sample contained 400 ppm zinc but nothing else.
REMARKS:
SAMPLE SITE: 3817
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-9-86
Attachment:

PROPERTY NAME: Midday claim
OTHER NAMES: Lucky Four claims(??)
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, lead, zinc
TYPE OF DEPOSIT: Quartz veins in granite
QUAD SHEET: Slate Mountain
OWNERSHIP:
SEC: 6 ,T: 14N ,R: 34E
North: 4312990 East: 396920
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: A line of caved prospects
GEOLOGY: A line of caved prospects follows narrow veins and veinlets in deeply weathered granite. The strike and dip of the veins is highly irregular but the mineralization seems quite uniform, consisting of galena, tetrahedrite, chalcopryrite and sphalerite. The granite exposed here is probably responsible for the skarn which has been explored for tungsten in the mines to the south. Sample 3871 contained 2000 ppm copper, 2000 ppm molybdenum, 5 ppm silver and less than .05 ppm gold.
REMARKS:
SAMPLE SITE: 3871
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-18-86
Attachment:

PROPERTY NAME: Mizpah mine
OTHER NAMES: Austrian mine, Gold Dyke, Gold Point
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Bell Canyon
OWNERSHIP:
SEC: 28 ,T: 16N ,R: 34E
North: 4340300 East: 397860
PRODUCTION: Exact amount is not known
HISTORY: Discovered in 1906 by Otto Steinheimer and brother, sold to Kennedy of Reno for \$50,000 who organized Mizpah Mine Co., worked until 1911. Later sold to Henry Bartell.
DEVELOPMENT: An upper 70-foot deep shaft connecting with 5 lower levels totalling about 1600 feet of workings. The main adit at the bottom of the canyon is the fourth level. See sketch map.
GEOLOGY: The host rocks at the mine are dominately ash-flow and rhyolite that have been silicified, and locally brecciated and kaolinized along numerous fractures and within and along the margin of the veins. The principal vein strikes about east-west and dips variously between 60 and 75 degrees to the south. It varies in thickness from 4 to 20 feet and is reported to have averaged 6 feet. Numerous slicks present along the exposed portions of the vein attest to the post-vein movement. The workings have opened the vein to a depth of 265 feet, on five levels. Schrader (1947) described the vein as "consisting of mainly hard, white quartz, mostly formed by replacement, and of silicified, brecciated rhyolite with part of it resembling a replaced, brecciated dike. It is locally vuggy. A considerable portion of the vein an ore shows the peculiar structure of quartz and adularia replacement gangue, pseudomorphic after calcite." At the time Schrader visited the mine in 1916, all of the workings above the main adit or fourth level were accessible but only the fourth level was open during our visit. He described the 4th level and the "Manganese" winze sunk below it where the "ore contains considerable pyrolusite and wad. A manganese zone 5 to 20 feet wide contains \$12 or in place." Our sample 3981 was
REMARKS:
SAMPLE SITE: 3828, 3981, 3982, 3983, 3984, 3895
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-11-86 & 10-19-86
Attachment:

PROPERTY NAME: Nevada Crown mine
OTHER NAMES: Gold Crown, Port and Sampson, Rex claims
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: L. E. Spriggs, Spectrum Exploration, Hawthorne
SEC: 17 ,T: 15N ,R: 34E
North: 4334500 East: 397660
PRODUCTION: Reported gold, silver ore but no numbers
HISTORY: Discovered in 1906 by Port and Sampson and worked intermittently until 1909 by crew of 12 men. In 1914 the mine was sold to Mr. Morgan of the Schlitz Milwaukee Brewing Co.
DEVELOPMENT: Workings consist of 600 foot adit, caved 250 feet from the portal, a 250 foot shaft, and a smaller exploratory shaft to the north. The shafts are about 2000 feet northeast of the adit.
GEOLOGY: The main workings are a cross-cutting adit reported to be 600 feet in length that is caved 250 feet from the portal. The adit runs on a N35 degrees E beginning in andesite and undercutting a large highly brecciated and silicified 10-30 foot wide vein that bears N 50 degrees W, 40 degrees N. Other similar veins parallel the first vein but are 100 to 150 feet to the north. The veins form prominent outcrops, some over thirty feet high, and range up to 20 or 30 feet wide. All the veins can be traced along their strike length for 1500 to 2000 feet, but most come to an abrupt end in the canyon to the east where they were faulted off. The eastern fault follows a narrow NNE canyon that appears to be fault controlled. To the west, the veins are terminated by a granite exposed in a window (not mapped) that crops out for several hundred yards. Mesozoic sediments, both limestone and shales, can be traced by float along the margins of the pink granite. The granite is undoubtedly the monzonite/aplite reported by Schrader (1914) and found in the adit dump. The dump material includes material not seen during the mapping of the first 250 feet of the adit suggesting that the adit cut some of the other veins further to the north. This was also confirmed.
REMARKS: See sketch map of mine. None of the workings are shown on the Bell Canyon 7-1/2
SAMPLE SITE: 3970, 3971, 3973
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-18-86
Attachment:

PROPERTY NAME: Nevada Fairview mine
OTHER NAMES: Bluff mine
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Bell Canyon
OWNERSHIP: Tenneco Minerals
SEC: 7 ,T: 15N ,R: 34E
North: 4336600 East: 396530

PRODUCTION: Small

HISTORY: Discovered in 1906 and worked as part of Nevada Fairview mine until 1910; Bluff name came from one of the original claim names.

DEVELOPMENT: A single caved adit on the south side of Snyder Canyon

GEOLOGY: Adit is on the west side of a huge, silicified, and partly brecciated andesite (dacite?) near the contact with a volcanic intrusive. The silicified structure crops out and fills the canyon on both sides, standing 20-30 feet high and 20-30 feet in thickness; it can be traced on the surface for about three hundred feet along its strike length. Sample 3810 was selected from the dump and consisted of breccia with pyrite and other sulfides.

REMARKS:

SAMPLE SITE: 3810

REFERENCES:

EXAMINER: Jack Quade/Joe Tingley

DATE VISITED: 9-9-86

Attachment:

PROPERTY NAME: Nevada Fairview mine
OTHER NAMES: Snyder mine, Gold Coin mine
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: Tenneco Minerals
SEC: 7 ,T: 15N ,R: 33-1/2
North: 4336680 East: 396540
PRODUCTION: Reported to be small, exact amount unknown
HISTORY: Discovered in 1906 and worked until 1910 by as many as 20 men.
DEVELOPMENT: The workings consist of a southward trending, 100 foot long adit with a shaft at the entrance.
GEOLOGY: The mine is developed along a contact between a dacite intrusive that cuts silicified and brecciated tuff. The brecciation is along and part of the vein system and extends away from the margin of the contact which bears N50 degrees E, 85 degrees E. The principal mineralization seems to be associated with the hanging wall and is within brecciated strongly silicified dacite. Samples taken from the dump by Speed and Willden (1974) ran 300 ppm silver and 0.39 ppm gold. They also sampled an open cut just north of the adit on the north side of the canyon that ran 150 ppm silver and 29 ppm gold. Our sample 3809, taken from the dump, contained 1000 ppm silver and 1.4 ppm gold.
REMARKS:
SAMPLE SITE: 3809
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-9-86
Attachment:

PROPERTY NAME: Nevada Fairview mine
OTHER NAMES: Snyder mine, Gold Coin #2
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: Tenneco Minerals; this is patented ground
SEC: 7 ,T: 15N ,R: 34E
North: 4337260 East: 396740
PRODUCTION: Produced for several years but amount unknown
HISTORY: Discovered in 1906 by Bartholomew, optioned by Snyder, 20 men worked the property for ten months, later production in 1910
DEVELOPMENT: Reported to be about 1200 feet of workings with 3 adits, winzes, drifts and raises, and one shaft associated with the 2nd adit (caved).
GEOLOGY: The workings explore a prominent ledge of silicified brecciated volcanic rock with massive calcite veining. Sulfides are said to begin on the 100 foot level. Adit number 1 is 430 feet long and attains a depth of 250 feet at the face. The vein was reported by Schrader (1947) to carry ore shoots with good values up to 2-1/2 feet in width. Our sample 3811 was taken from the face 430 feet from the portal and consisted of calcite and silicified vein material. A second sample (3812) was taken 132 feet from the portal near a raise and winze that explore a 6-foot thick ore shoot. This second sample consisted of quartz and calcite vein material highly stained by manganese oxide. Both samples were low in values.
The second adit, starting on the discovery site was reported by Schrader to run northward 125 feet along a steeply dipping fault plane with 2- to 6-foot thick vein. Ore was reported to have run the entire strike length of the workings and have consisted mainly of quartz. At the portal of the adit is a 100 foot deep shaft. The first 60 feet of the shaft, which produced most of the ore from these workings; was reported to be in the same vein and ore body as the adit, later (cont., attachment)
REMARKS:
SAMPLE SITE: 3811, 3812
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-9-86
Attachment: expanded by cross-cutting raiding, and drifting.
About a half mile to the north, the vein crops out boldly for a distance of several hundred feet along strike and it is opened by a 300 foot long adit known as Tunnel number 4. A winze was sunk 130 feet from the portal of this working. The workings were reported by Schrader to be mostly in a white quartz vein, 10 to 15 feet wide, that assayed good gold/silver values. The vein was also reported to have had streaks of very rich-ore in the foot-wall side of the vein.

PROPERTY NAME: Nevada Florence mine
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold, copper, lead, zinc
TYPE OF DEPOSIT: Shear zone, contact
QUAD SHEET: Bell Canyon
OWNERSHIP: Unknown
SEC: 30 ,T: 16N ,R: 34E
North: 4343930 East: 397940
PRODUCTION: Unknown but thought to be small
HISTORY: Very old workings
DEVELOPMENT: Old shaft and prospects
GEOLOGY: A northwest trending shear follows the contact between granite and andesite, near contact with old Mesozoic sediments. The shear zone is highly oxidized and contains manganese-oxide stained calcite vein with copper, lead and zinc mineralization.
Sample 3838 contained 200 ppm silver, 3000 ppm copper, 20,000 ppm lead, 3000 ppm zinc, 70 ppm molybdenum, and 0.20 ppm gold. The sample was lamped with UV light for scheelite but none was detected.
REMARKS:
SAMPLE SITE: 3838
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-12-86
Attachment:

PROPERTY NAME: Nevada Hills extension shaft

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold, lead

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Patented ground

SEC: 20 ,T: 16N ,R: 34E

North: 4343960 East: 398880

PRODUCTION: Unknown

HISTORY:

DEVELOPMENT: Shaft that extended the ground worked to the south.

GEOLOGY: This particular workings was sunk in what appears to be a barren andesite or dacite. Much of the dump material was a highly argillitized, white volcanic with minor quartz-volcanic-breccia and only limited mineralization. The assay showed only low silver-lead-zinc values. Silver was 7 ppm and gold was less than .05 ppm.

REMARKS:

SAMPLE SITE: 3844

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Nevada Hills mine
OTHER NAMES: Nevada Hills shaft & tunnels 1 & 5
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold, copper, lead, zinc
TYPE OF DEPOSIT: Epithermal vein
QUAD SHEET: Bell Canyon
OWNERSHIP:
SEC: 17 ,T: 16N ,R: 34E
North: 4344120 East: 399050
PRODUCTION: More than \$3 million between 1906-1917
HISTORY: Located in 1906 by P. Langsdan, later optioned to Hobson & Weber who developed and worked the property through 1917. Most of the nearly \$4 million in production from the camp came from this mine.
DEVELOPMENT: The mine was opened to a depth of 1100 feet on 9 levels, with more than 43,000 feet of working distributed between shafts, drifts, tunnels, adits, raises and winzes.
GEOLOGY: All of the workings are in Tertiary volcanics which were reported by earlier workers to consist of dacite tuffs and andesite that were deposited both before and after the formation of the ore deposits. Willden and Speed (1974, p. 73) reported that all the tuffaceous rocks seen or collected were sufficiently rich enough in quartz to be classified as rhyodacites, quartz latites and rhyolites rather than dacites. The so-called lode andesites described by earlier workers to be the best host formation for ore were called dacites by Willden and Speed. The ore deposits are in quartz veins ranging in thickness from a few inches up to 40 feet and, in the central part of the district, they were hosted almost entirely within the lode andesite (dacite). The two most productive veins were the Nevada Hills and Eagle veins. They are parallel, strike northwest and dip to the southwest and both were on Nevada Hills ground. The best ore was above the 500 foot level although mining and prospecting was extended to 1100 feet. The principal ore minerals were acanthite, chlorargyrite, bromargyrite, embolite, electrum, gold, pyrargyrite, chalcopyrite, sphalerite, galena, stephanite and tetrahedrite. For the good description of the mine the reader is
REMARKS:
SAMPLE SITE: 3841, 3842, 3843
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-12-86
Attachment:

PROPERTY NAME: Pyramid shaft(?)
OTHER NAMES: Jeff claims(?)
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Epithermal fault-vein
QUAD SHEET: Bell Canyon
OWNERSHIP: Most recently the Jeff claims staked on Sept. 12, 1983 by William Fleet of Glacier, WA
SEC: 21 ,T: 16N ,R: 34E
North: 4343540 East: 399550
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Large shaft-adit and air shaft
GEOLOGY: Workings are along the strike of a N32 degree E, vertical shear known as the Pyramid fault in what appears to be altered andesite (dacite), and a tuff which Schrader (1947) refers to as the Pyramid Tuff. The shear may follow the contact although that is not certain from what I saw. Schrader reported the eastern contact of the Pyramid tuff as being down-faulted against the later andesite along the Pyramid fault. The old workings are not accessible. Sample 3848, collected from the dump, showed 30 ppm silver and .55 ppm gold.
REMARKS:
SAMPLE SITE: 3848
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-12-86
Attachment:

PROPERTY NAME: Rex claims
OTHER NAMES: Nevada Crown mine (area)
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: L. E. Spriggs, Spectrum Exploration, Hawthorne, NV
SEC: 18 ,T: 15N ,R: 34E
North: 4334920 East: 396130
PRODUCTION: Unknown, but thought to be none
HISTORY: Workings appear to relate to the early 1900's, and may be associated with the Nevada Crown mine
DEVELOPMENT: A line of shallow prospects north and south of Bell Canyon wash.
GEOLOGY: Workings are along a prominent vein bearing N35 degrees W, 75 degrees Sw that can be traced on the surface for several hundred yards as it crosses Bell Canyon. The very prominent outcrop is 40-50 feet wide in places but the major zone of interest is a highly silicified breccia along the west side of the vein that is about 10 feet thick. Our sample 3813 was chipped from this exposure above a small prospect shaft. This location is on the Rex Claim #5. Sample 3814 was taken from another prospect on Rex Claim #6, across the canyon to the south, but along the same breccia zone. Sample 3868 was taken from a third prospect on the southeast side of the vein system on Rex Claim #8.
Further to the east, sample 3815 was taken from a small prospect on a shear bearing N70 degrees W, 40 degrees NE in highly altered rhyolite. Still further east, sample 3816 was taken from a vein in a 3-foot wide shear bearing N35 degrees-45 degrees W, 50 degrees NE. The structure contains highly altered volcanic breccia that can be traced for several hundred feet on the surface. Sample 3815 was taken on Rex #13 claim; sample 3816 was taken on Rex #15 claim.
REMARKS:
SAMPLE SITE: 3813, 3814, 3815, 3816, 3868
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-9-86
Attachment:

PROPERTY NAME: Sample site 3808
OTHER NAMES: West of Nevada Crown mine
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: Tenneco claims
SEC: 12 ,T: 15N ,R: 33-1/2
North: 4336290 East: 395530
PRODUCTION: Unknown
HISTORY: Workings look to be very old.
DEVELOPMENT: A single shaft explore and exposed N-S trending vein system.
GEOLOGY: The area is dominately altered rhyolites and tuffs intruded by dacites or andesite. The shaft was sunk on a N35 degree E, 70 degree SE dipping vein in highly altered rhyolite and silicified, welded tuff. Sample 3808 was chipped from the outcrop, but the analysis showed only minor mineralization.
REMARKS:
SAMPLE SITE: 3808
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 9-9-86
Attachment:

PROPERTY NAME: Sample site 3821

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Area covered by old Fairview claims, Spectrum Exploration

SEC: 31 ,T: 16N ,R: 34E

North: 4339800 East: 398700

PRODUCTION: None

HISTORY:

DEVELOPMENT: Prospect

GEOLOGY: The prospect is a small trench and a small now-caved adit that explores a 3- to 4-foot thick white quartz vein in an outcrop of older sediments. The vein bears N65 degrees W and stands vertically. Sample 3821 was chipped from the exposed portion of the vein which showed only minor gray sulfides. Tenneco sample #4-8265 was taken from this same location.

REMARKS:

SAMPLE SITE: 3821

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-10-86

Attachment:

PROPERTY NAME: Sample site 3826

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 31 ,T: 16N ,R: 34E

North: 4340320 East: 397480

PRODUCTION: None

HISTORY: Seems to date from the early exploration around 1906-1910.

DEVELOPMENT: Small prospect pit and 15 foot shaft

GEOLOGY: Country rock is kaolinized rhyolite that near the prospect, is bleached white. Sample 3826 was chipped from the exposed portion of a N30 degree E, 42 degree SE dipping, silicified vein. Assays showed only minor mineralization, (3 ppm silver and less than .05 ppm gold).

REMARKS:

SAMPLE SITE: 3826

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3829

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 30 ,T: 16N ,R: 34E

North: 4341420 East: 396480

PRODUCTION: Unknown

HISTORY: Looks to date from era of exploration in the early 1900's.

DEVELOPMENT: Small prospect-pit about 6-8 feet deep.

GEOLOGY: The area is dominately rhyolite but the prospect is near a contact with andesite intrusive. The exposed vein consists of vuggy quartz with dark-gray sulfides that strikes E-W and dips 10 degrees N-W. Sample 3829 was chipped from the vein and assayed 100 ppm molybdenum but little else.

REMARKS:

SAMPLE SITE: 3829

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3830

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 30 ,T: 16N ,R: 34E

North: 4341100 East: 396300

PRODUCTION: None

HISTORY: Early prospecting in the area dates from 1900's

DEVELOPMENT: Small prospect

GEOLOGY: The prospect exposes a narrow set of quartz stringers with open-spaces and some kaolin alteration hosted in rhyolite. Assay showed only minor base metal mineralization, 1.5 ppm silver and .05 ppm gold.

REMARKS:

SAMPLE SITE: 3830

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3831

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Quartz veins

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 30 ,T: 16N ,R: 34E

North: 4341180 East: 396650

PRODUCTION: None

HISTORY: From the early 1900's??

DEVELOPMENT: Small prospect pits

GEOLOGY: Prospect along a contact between rhyolite and andesite intrusive.

Narrow quartz stringers with open spaces, iron-stained. Sample 3831 contained no base metal values, only 3 ppm silver and 0.08 ppm gold.

REMARKS:

SAMPLE SITE: 3831

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3832

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 17 ,T: 16N ,R: 34E

North: 4344970 East: 398130

PRODUCTION: None

HISTORY: Early prospecting

DEVELOPMENT: A small adit

GEOLOGY: A small cross-cutting adit bearing N20 degrees E driven beneath an E-W structure with quartz veining and strong kaolin alteration. Sample grabbed from dump, assays were low (3 ppm silver and less than .05 ppm gold).

REMARKS:

SAMPLE SITE: 3832

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3833

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold, copper, lead

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 18 ,T: 16N ,R: 34E

North: 4344600 East: 397540

PRODUCTION: Unknown

HISTORY: Early prospecting.

DEVELOPMENT: A small shaft

GEOLOGY: Workings are on a 12-inch wide quartz vein in rhyolite, vein bearing N5 degrees E, 75 degrees W near rhyolite intrusive. Area is strongly hydrothermally altered. Sample 3833 from vein and dump; some copper and lead oxides, alunite coating on open spaces. Sample assayed 1000 ppm copper, 2000 ppm lead, 70 ppm silver, with gold values below the detection limit of .05 ppm.

REMARKS:

SAMPLE SITE: 3833

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3834

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): tungsten (?)

TYPE OF DEPOSIT: Contact

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 18 ,T: 16N ,R: 34E

North: 4344440 East: 397020

PRODUCTION: None

HISTORY: Unknown but appears to be old.

DEVELOPMENT: Shallow incline, not shown on map.

GEOLOGY: Shaft was sunk on contact between Mesozoic sediments and felsite(?) with contact mineralization, including epidote, garnet, other silicate minerals and sulfides associated with quartz veining...last rock placed on the dump is a fine-grained granite. Sample 3834 was selected from dump. Assay was high in copper and zinc with lessor amounts of lead and no tungsten. Silver was 3 ppm and gold was below .05.

REMARKS:

SAMPLE SITE: 3834

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-11-86

Attachment:

PROPERTY NAME: Sample site 3835

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): copper, lead, zinc, silver

TYPE OF DEPOSIT: skarn

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 18 ,T: 16N ,R: 34E

North: 4344700 East: 396680

PRODUCTION: Unknown

HISTORY: Much earlier but exact date not known.

DEVELOPMENT: A large shaft, maybe 150 feet deep.

GEOLOGY: The first 15 feet of the shaft passes through nearly horizontal, limey-shales. Rock on top of the mine dump representing the last material taken from the shaft is a fine-grained granite, but it does not crop out in the vicinity of the workings. Sample 3835 was selected from the dump and consisted of manganese-oxide stained garnet, epidote and quartz with base metal sulfides and oxides. Assays were anomalous in copper, lead, zinc, molybdenum and strontium. Silver was 50 ppm and gold was .05 ppm.

REMARKS:

SAMPLE SITE: 3835

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3836

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): copper, lead, zinc, silver

TYPE OF DEPOSIT: skarn

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 18 ,T: 16N ,R: 34E

North: 4344110 East: 397280

PRODUCTION: Unknown

HISTORY: Old workings

DEVELOPMENT: Shaft and adit collared in granite.

GEOLOGY: Although the workings are collared in granite they are near older shaley, sediments. Vein quartz on the mine dump contain base metal sulfides.

Assay values were high in copper, lead and zinc with lessor amounts of silver at 100 ppm and gold at less than .05 ppm.

REMARKS:

SAMPLE SITE: 3836

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3837
OTHER NAMES: Nevada Florence?
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold, copper, molybdenum, lead, zinc
TYPE OF DEPOSIT: Contact
QUAD SHEET: Bell Canyon
OWNERSHIP: Unknown
SEC: 20 ,T: 16N ,R: 34E
North: 4343930 East: 397860
PRODUCTION: Unknown but thought to be small
HISTORY: Very old workings.
DEVELOPMENT: Old, caved, shaft and several prospect pits.
GEOLOGY: Workings are along a contact between older sediments and granite. There appears to be ore piled next to the shaft consisting of manganese-stained calcite and sooty, pyrolusite-wad. Most of the mineralization is highly oxidized consisting of copper oxides, hemimorphite(?), tetrahedrite and what appears to be yellow-green lead oxides. Assays results were high in manganese (5000 ppm), silver (200 ppm), copper (15,000 ppm), molybdenum (*200 ppm), lead (greater than 20,000 ppm), and zinc (2000 ppm). No tungsten was lamped or picked up in the assay. Gold was .30 ppm.
REMARKS:
SAMPLE SITE: 3837
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-12-86
Attachment:

PROPERTY NAME: Sample site 3839

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal veins

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 17 ,T: 16 ,R: 34E

North: 4344420 East: 398000

PRODUCTION: Unknown

HISTORY: Part of the early exploration of the district

DEVELOPMENT: Cross-cut adit on exposed vein.

GEOLOGY: The workings consist of a cross-cut adit that explores a N25 degrees E, 75 degrees SW, 4-6 foot vein in rhyolite that can be traced on the surface for over three hundred feet. The vein consists of strings of vuggy limonite-stained quartz with minor brecciation. Sample 3839 contained only 7 ppm silver and .05 ppm gold but contained moderately anomalous molybdenum (40 ppm), similar to values in molybdenum values in nearby samples.

REMARKS:

SAMPLE SITE: 3839

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3840

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP:

SEC: 17 ,T: 16N ,R: 34E

North: 4344570 East: 398100

PRODUCTION: Not known

HISTORY:

DEVELOPMENT: Adit and small shaft

GEOLOGY: Prospect is along an epithermal quartz vein in rhyolite, bearing N20 degrees W, 70 degrees NE; the sample was taken from portions of the exposed vein and from dump. The vein quartz is massive, white and without visible minerals. The assay results were also low. Silver was 7 ppm and gold was .10 ppm.

REMARKS:

SAMPLE SITE: 3840

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3845

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 30 ,T: 16N ,R: 34E

North: 4343660 East: 398890

PRODUCTION: Unknown

HISTORY: Old prospect

DEVELOPMENT: Large adit, partly caved

GEOLOGY: The workings are hosted in an andesite (dacite) on a N55 degrees E structure dipping 77 degrees NW. The ore is within quartz stringers and silicified vein in highly oxidized material containing some pyrite. Sample 3845 contained only traces of mineralization.

REMARKS:

SAMPLE SITE: 3845

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3846

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold; copper-lead-zinc, molybdenum

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 30 ,T: 16N ,R: 34E

North: 4343720 East: 398700

PRODUCTION: Unknown

HISTORY: Old workings

DEVELOPMENT: Shaft and trenching

GEOLOGY: The shaft was sunk on a 4-6 foot thick, shear zone near the contact between highly altered granite and andesite. The shaft-incline was sunk on the dip slope of a N70 degrees W, 55 degrees SE vein. Ore from the dumps consists of manganese-oxide rich calcite along with stringers of quartz and highly oxidized material without visible minerals. The material assayed 200 ppm silver, 2000 ppm copper, 150 ppm molybdenum, 20,000 ppm lead, 10,000 ppm zinc, and .60 ppm gold.

REMARKS:

SAMPLE SITE: 3846

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3847

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold (?)

TYPE OF DEPOSIT: Epithermal vein

QUAD SHEET: Bell Canyon

OWNERSHIP: Unknown

SEC: 30 ,T: 16N ,R: 34E

North: 4343810 East: 399000

PRODUCTION: Unknown

HISTORY:

DEVELOPMENT: A small shaft and trenching

GEOLOGY: The workings are along a quartz vein within a fault that is hosted in andesite (dacite). The fault-vein bears N28 degrees E, 67 degrees NW and is about 2 feet wide. The iron-stained quartz was without visible mineralization and assayed only minor base-metal values. Silver was 5 ppm and gold was less than .05 ppm.

REMARKS:

SAMPLE SITE: 3847

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9-12-86

Attachment:

PROPERTY NAME: Sample site 3849
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Bell Canyon
OWNERSHIP: Unknown
SEC: 30 ,T: 16N ,R: 34E
North: 4343860 East: 399270
PRODUCTION: None
HISTORY: Part of the Nevada Hills Exploration
DEVELOPMENT: Small shaft
GEOLOGY: The workings are along a strong east-west structure east of the Nevada Hills "Glory Hole" in a highly altered andesite. Sample 3849 was selected from the dump but did not have any visible mineralization. It contained only minor silver values (15 ppm) and gold was below the .05 ppm detection limit.
REMARKS:
SAMPLE SITE: 3849
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-12-86
Attachment:

PROPERTY NAME: Sample site 3850
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Bell Canyon
OWNERSHIP: Part of Nevada Hills Mine
SEC: 30 ,T: 16N ,R: 34E
North: 4344000 East: 399080
PRODUCTION: Unknown
HISTORY: From early part of camp
DEVELOPMENT: A single shaft
GEOLOGY: The shaft is along the main east-west structure east of the glory-hole.
Sample 3850, from the dumps, assayed only minor copper-lead mineralization, .5
ppm silver and less than .05 ppm gold.
REMARKS:
SAMPLE SITE: 3850
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-12-86
Attachment:

PROPERTY NAME: Sample site 4315

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: vein

QUAD SHEET: Bell Canyon

OWNERSHIP:

SEC: ,T: ,R:

North: 4344540 East: 398803

PRODUCTION: unknown

HISTORY: unknown

DEVELOPMENT: East-trending adit on south bank of narrow canyon; large dump partially washed away by flooding in canyon.

GEOLOGY: Adit follows N70W-striking, 80SW-dipping brecciated vein zone in greenish, silicified dacite. Vein zone is about 15 feet wide and is composed of silicified wall rock and white vein quartz; vein rolls over to a 50SW dip above portal of adit, footwall is silicified and laced with vuggy quartz veinlets, manganese oxides coat fracture surfaces in wall rock. Outcrop of zone forms a prominent ledge that extends to the northwest across the narrow canyon. Vein quartz contains disseminated pyrite and a fine-grained gray mineral, possibly silver sulfide. Thin quartz veins on a N10W trend crosscut the main vein system at portal of adit.

REMARKS: More workings explore the zone to the southeast on strike, remains of hoisting works foundations are in gully to the northwest

SAMPLE SITE: 4315

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 20, 1989

Attachment:

PROPERTY NAME: Sample site 4317

OTHER NAMES:

MINING DISTRICT: Fairview

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: vein

QUAD SHEET: Drumm Summit

OWNERSHIP:

SEC: ,T: ,R:

North: 4345191 East: 397644

PRODUCTION: unknown

HISTORY: unknown

DEVELOPMENT: Vertical shaft, timbered at collar, est. 100 feet deep, other workings to the southeast.

GEOLOGY: Shaft sunk on silicified rhyolite/dacite breccia, small vugs contain iron-oxide staining, acicular quartz crystals, some fresh pyrite cubes, up to 1mm across are disseminated in silicified rock. No good outcrop near the shaft, but ledge crops out to the northwest and southeast

REMARKS:

SAMPLE SITE: 4317

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 20, 1989

Attachment:

PROPERTY NAME: Slate mine
OTHER NAMES: Midday claims
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Slate Mountain
OWNERSHIP: Ted Monson, Las Vegas (five Midday claims) from June of
1969...assessment work 1985
SEC: 6 ,T: 14N ,R: 34E
North: 4329940 East: 396430
PRODUCTION: Reported to be small
HISTORY: Unknown
DEVELOPMENT: Several adits and open-pit
GEOLOGY: Upper adit follows the southeast striking bedding of sedimentary rocks.
Sedimentary rocks consist of shaley limestone and miracious shale; skarn is
present but no granite is visible. Granite outcrops in the adjacent canyon to
the north. Contact minerals include epidote, garnet, and calcite; minor
scheelite is present. Sample 3869 was taken from the dumps associated with the
upper adit. Sample 3870 came from the dumps and open workings near the lower
adit and consisted of coarse garnet, epidote, silicated sedimentary rocks with
minor scheelite shows. Neither sample contained detectable gold or silver;
sample 3870 contained 150 ppm molybdenum, 100 ppm chrome, and 300 ppm tungsten.
REMARKS:
SAMPLE SITE: 3869, 3870
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-18-86
Attachment:

PROPERTY NAME: Tomboy prospect(?)
OTHER NAMES:
MINING DISTRICT: Fairview
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Epithermal veins
QUAD SHEET: Bell Canyon
OWNERSHIP: Unknown
SEC: 31 ,T: 16N ,R: 34E
North: 4340420 East: 397580
PRODUCTION: Unknown
HISTORY: Seems to date from the early 1900's
DEVELOPMENT: One small shaft
GEOLOGY: Prospect shaft sunk in soft, highly altered (bleached white) rhyolite adjacent to outcrop with two exposed veins bearing N 65 degrees E, 75 degrees N and N20 degrees E, 70 degrees N. Sample 3827, chipped from vein, showed only minor mineralization in assays.
REMARKS:
SAMPLE SITE: 3827
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 9-11-86
Attachment:

PROPERTY NAME: American Gold claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, molybdenum
TYPE OF DEPOSIT: skarn
QUAD SHEET: Kinkaid
OWNERSHIP: American Gold Resources, 134 Union Blvd., Suite 600, Lakewood, CO
SEC: 35 ,T: 9N ,R: 32E
North: 4272855 East: 379765
PRODUCTION: Unknown but a loading ramp is loaded with ore.
HISTORY: Unknown
DEVELOPMENT: Old roads are gone, loading ramp, mining area small.
GEOLOGY: Small east-west contact zone between limestone and granite exposed in open workings and prospects. Some of the prospecting has been on veins within the granite.
REMARKS: No roads the last half mile.
SAMPLE SITE: 3638
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: American Gold claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Indian Head Peak
OWNERSHIP: American Gold Resources, 134 Union Blvd., Suite 600, Lakewood, CO
SEC: 36 ,T: 9N ,R: 32E
North: 4273048 East: 380723
PRODUCTION: Unknown
HISTORY: Area and older workings have been heavily dozed and drill pads and drill holes have been abandoned.
DEVELOPMENT: Area and older workings have undergone recent but abandoned exploration.
GEOLOGY: Within this area prospects follow a N20 degrees W-striking, 65 degrees NE-dipping, 3-foot-wide vein in a shear hosted in limestone, that shows copper mineralization along with unidentified sulfides.
REMARKS: New roads to north have been dozed closed.
SAMPLE SITE: 3640
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: Canyon claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, copper
TYPE OF DEPOSIT: gossan, vein
QUAD SHEET: Indian Head Peak
OWNERSHIP: Unknown
SEC: ,T: 9N ,R: 33E
North: 4275323 East: 382965
PRODUCTION: Unknown
HISTORY: Unknown but old.
DEVELOPMENT: Shafts, adits and prospects.
GEOLOGY: At the shaft, the vein is in a shear bearing N 5 degrees W and dipping 80 degrees NE. The vein is highly oxidized, iron-stained, and contains lenses of gossan. The shear zone and vein are hosted in cretaceous quartz monzonite. Similar occurrences cover about a half mile square. These are old workings and with production.
REMARKS: The road east of Paymaster Canyon is washed out, and Paymaster Canyon is washed to the north.
SAMPLE SITE: 3642
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-5-89
Attachment:

PROPERTY NAME: CDO #2 claim
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten, copper
TYPE OF DEPOSIT: skarn
QUAD SHEET: Kinkaid NW
OWNERSHIP: Unknown
SEC: ,T: 10N ,R: 31E
North: 4286846 East: 372578
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shaft
GEOLOGY: Contact of flat-lying limestone of Luning Formation and Cretaceous granite. The irregular contact trends to the southeast, forming no more than 2 feet of skarn along its strike.
REMARKS: Just of the main road to Win Wan Flat
SAMPLE SITE: 3698
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Hawaiian group
OTHER NAMES: Mercury claims
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Massive vein.
QUAD SHEET: Ryan Canyon
OWNERSHIP: Unknown
SEC: 9 ,T: 9N ,R: 31E
North: 4279010 East: 367298
PRODUCTION: Unknown
HISTORY: Discovered in 1906 by Ryan after whom the Canyon was named.
DEVELOPMENT: One shaft, many adits and prospects on which new dozer-cuts, roads and drill pads have been superimposed.
GEOLOGY: The line of workings follow the north-south structure for over a third of a mile. The silicified outcrop (dike?) varies in thickness from 150 to 600 feet. Part of the structure is filled with a massive silicified breccia of undetermined dimension. The main part of the outcrop is just west of Ryan Canyon. Values were reported to be in gold-silver, copper and manganese but there is no record of production.
REMARKS: Easy access west of Ryan Canyon.
SAMPLE SITE: 3679
REFERENCES: Ross, D.C., 1961, Geology and mineral deposits of Mineral County, Nevada; NBMG Bull. 58.
Vanderburg, 1937 Reconnaissance of Mining Districts in Mineral County, Nevada; USBMIC 6841.
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Iron Crown prospect

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver (??)

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Luning

OWNERSHIP: Unknown but recently staked

SEC: 29 ,T: 9N ,R: 34E

North: 4274860 East: 393523

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: A line of old prospects and inclines and small cabin.

GEOLOGY: Workings follow a narrow (18") quartz vein bearing N50 degree W and dipping 45 degrees SW in deeply weathered granite. Much of the dumps have been hauled away. Sample was selected from remaining dumps and vein but did not show any visible mineralization.

REMARKS:

SAMPLE SITE: 3556

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-9-89

Attachment:

PROPERTY NAME: Los Amigos mine
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Stockworks
QUAD SHEET: Indian Head Peak
OWNERSHIP: Unknown
SEC: ,T: 9N ,R: 33E
North: 4274468 East: 385288
PRODUCTION: Some, but the amount is unknown
HISTORY: Old workings with dozer-cuts, roads and drill-holes; recent work appears to have been within the last five years.
DEVELOPMENT: Old adits and shafts, numerous prospects, pits and trenches.
GEOLOGY: A prominent knob northeast of Indian Head Peak has been circumnavigated by roads exposing 75-100 copper-bearing veins. The veins range from a few inches to several feet in width, are steeply-dipping and mostly bear north. The host rocks are argillic siltstones interbedded with a few beds of limestone. The veins form a stockwork-like system. The knob was the site of several old shafts which was later cut-off in part into a pad from which a prominent angle hole was drilled through the structure. Sample 3643 was taken from the exposed veins near the top of the knob.
Further to the west, and nearer to the plug that forms Indian Head peak, are three major workings hosted in the same argillic siltstones. The workings are shallow and seem to be directed at shear zones. Two ore-bins contain fine-grained gouge and material taken from these zones, many of which are stoped through to the surface and none of which were deepened. Sample 3644 was taken from these exposed, shallow shear zones.
(continued attachment)
REMARKS: The only road is from the east and is very badly washed.
SAMPLE SITE: 3643, 3644, 3645
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-5-89
Attachment: Sample 3645 was taken from a line of very old shallow adits that were driven on veins hosted in a gray-white felsic unit adjacent to a very old stone cabin. The veins contained quartz stringers with galena.

PROPERTY NAME: Momi Mining Company mine
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): barite
TYPE OF DEPOSIT: Replacement and vein
QUAD SHEET: Kinkaid
OWNERSHIP: Momi Mining, B.C. Kemptleo, 15868 Toll Road, Reno, NV 89511
SEC: 10 ,T: 8N ,R: 32E
North: 4269701 East: 378216
PRODUCTION: Small
HISTORY: Within the last ten years.
DEVELOPMENT: Bulldozer cut
GEOLOGY: Barite veins and pods occur in Triassic metavolcanic rocks.
REMARKS: Roads, trenches, pits and deep dozed-cuts cover several miles along the range where barite was explored for and mined.
SAMPLE SITE: 3636
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: Montreal mine
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, gold, copper, lead
TYPE OF DEPOSIT: Bedded contact
QUAD SHEET: Kinkaid
OWNERSHIP: Charles Miller, Hawthorne, NV (1982)
SEC: 11 ,T: 8N ,R: 32E
North: 4270394 East: 379387
PRODUCTION: Reported to have been \$1,500,000 but thought to be excessive???
HISTORY: Worked before 1923, as the mine was reported on by Lincoln in that year.
DEVELOPMENT: Approximately 2 miles of workings, maybe eight shafts, loading dock, cabins but almost no roads. A minor access to the loading facilities is still passable. At one time the mine supplied ore to a 50 ton/day cyanide plant at the Kinkaid siding.
GEOLOGY: On the surface, the host rocks are thick Triassic volcanics in contact with platy, tan-colored shale. Workings are along N30 degrees W-striking, 45 degrees NW-dipping shear with numerous open stopes following an average of about 2-foot of vein.
The deposit, at depth, was reported to follow a rhyolite-granite contact and bedding planes. The granite, not seen on the surface, was also reported to have been cut by rhyolite dikes.
A sample of vein material was taken from the southern most adit (3668) which included gangue minerals of limonite and calcite and possible lead-silver oxides. Sample 3669 was taken from quartz stringers and other vein material associated with workings to the north.
REMARKS: Most of the workings are not accessible by road.
SAMPLE SITE: 3668, 3669
REFERENCES: Lincoln, F.C., 1923, Mining Districts and Mineral Resources of Nevada, Reno, Nevada Newsletter Publ. Co., p. 143.
Ross, D.C., 1961, Geology and Mineral Deposits in Mineral County, Nevada NBMG Bull 58.
EXAMINER: Jack Quade
DATE VISITED: 5-15-89
Attachment:

PROPERTY NAME: Nevada Crown claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Mt. Ferguson
OWNERSHIP: Joe Malatesta, Hawthorne, Nevada
SEC: ,T: 9N ,R: 33E
North: 4277581 East: 391635
PRODUCTION: Ore has been shipped but no record of production
HISTORY: Since before 1940s
DEVELOPMENT: Pits and dozer cuts.
GEOLOGY: Mineralized zones in rhyolite were prospected and mined from pits and trenches.
REMARKS: Poor roads west of Luning road. Very recent dozer-cuts. Ore stockpiled near a major loading facility.
SAMPLE SITE: 3695
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: New Strike claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, tungsten
TYPE OF DEPOSIT: Contact, quartz veins
QUAD SHEET: Kinkaid NW
OWNERSHIP:
SEC: ,T: 10N ,R: 32E
North: 4282356 East: 374258
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Incline and shaft.
GEOLOGY: An incline at sample site 3699 exposes a N 70E-striking, 65 degrees NW-dipping zone that follows the bedding plane of a moderately-mineralized Luning limestone and a contact with Cretaceous granite. A second sample (3700) was taken from a 100-150 foot shaft along a shear in diorite. The shear contained some contact materials but was mainly quartz vein and silicified gouge with sulfide mineralization.
REMARKS: Fair road south of Win Wan Flat road.
SAMPLE SITE: 3699, 3700
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: P.M. claims

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): gold(?)

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Kinkaid

OWNERSHIP: Unknown

SEC: 35 ,T: 9N ,R: 32E

North: 4272627 East: 380206

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Incline and adit.

GEOLOGY: Small workings and prospect explore a 3-foot shear bearing almost north-south and traceable on the surface for at least three or four hundred feet.

REMARKS: No roads to site.

SAMPLE SITE: 3639

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-4-89

Attachment:

PROPERTY NAME: Prospect shaft
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold(?)
TYPE OF DEPOSIT: Vein in shear
QUAD SHEET: Luning
OWNERSHIP: Unknown
SEC: ,T: 9N ,R: 34E
North: 4271855 East: 395036
PRODUCTION: None
HISTORY: Old but unknown
DEVELOPMENT: A two hundred foot shaft.
GEOLOGY: The shaft was sunk on what appears to be a barren quartz diorite. There is almost no vein material on the dump. Sample 3560 was taken from the exposed vein at the surface and the minor material on the dump.
REMARKS:
SAMPLE SITE: 3560
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-9-89
Attachment:

PROPERTY NAME: Red Hill claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Kinkaid
OWNERSHIP: Unknown
SEC: 9 ,T: 8N ,R: 32E
North: 4270126 East: 376432
PRODUCTION: Unknown
HISTORY: Within the last ten years.
DEVELOPMENT: One square mile of prospects and dozer-cuts; several miles of roads.
GEOLOGY: From exposed cuts, discordant veins, and fissure veins some with minor copper mineralization. Most of the workings are in massive ash-flow tuffs that were emplaced in a subaerial environment.
REMARKS: Access is from the south via Highway 395.
SAMPLE SITE: 3635
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-5-89
Attachment:

PROPERTY NAME: Rusty Canyon claims
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Win Wan Flat
OWNERSHIP: Unknown
SEC: ,T: 9N ,R: 32E
North: 4276780 East: 381249
PRODUCTION: Unknown
HISTORY: Unknown, but not old.
DEVELOPMENT: Dozer-cuts and open-pit and trenches in an area covering about one third of a mile.
GEOLOGY: The workings are along small veins in shears and discordant quartz veins in deeply weathered granite.
REMARKS: West of an impassable Pay Master Canyon.
SAMPLE SITE: 3641
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-4-89
Attachment:

PROPERTY NAME: Section 33 adits and shafts
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver (?)
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Luning
OWNERSHIP: Unknown
SEC: 33 ,T: 9N ,R: 34E
North: 4273045 East: 395387
PRODUCTION: None
HISTORY: Unknown but old
DEVELOPMENT: A series of shallow shafts and adits
GEOLOGY: Narrow veins in joints or shears are hosted in deeply weathered granite. Sample was taken from exposed veins and stockpiles of quartz breccia which showed only minor copper mineralization but contained other sulfides.
REMARKS:
SAMPLE SITE: 3555
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-9-89
Attachment:

PROPERTY NAME: Shallow prospects and shaft
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Ryan Canyon
OWNERSHIP: Unknown
SEC: 16 ,T: 9N ,R: 31E
North: 4277768 East: 366641
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shallow shaft and prospects.
GEOLOGY: Workings follow a N25 degree E-striking, 80 degree NW-dipping, 2-foot vein in volcanic rock of Triassic age. Edges of the trenches have small piles of copper-bearing vein material. Vein is similar to other prospects in area.
REMARKS: No road to workings.
SAMPLE SITE: 3676
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Silver Chief mines
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Veins in shears
QUAD SHEET: Mt. Ferguson
OWNERSHIP: Unknown
SEC: ,T: 9N ,R: 34E
North: 4275875 East: 394708
PRODUCTION: Unknown but some
HISTORY: Older workings maybe fifty...years more recent activity within the last several years.
DEVELOPMENT: Several adits a mill and cyanide facility...a later (now abandoned) heap leach, roads, dozer-cuts and drilling pads and drill holes.
GEOLOGY: A major north-trending, 55 degrees W-dipping, two foot-wide vein is exposed in an iron-stained granite near the contact with overlying volcanics. The exposure is part of a dozer cut above and into some of the older workings. The older workings apparently supplied ore to the cyanide mill that operated near the bottom of the hill. Ore from the dozer cut was used in a small but abandoned heap leach constructed atop the hill...Some of the ore in the heap leach came from a N80 degree W, 80 degree SW-dipping vein system. Both vein systems were sampled.
REMARKS:
SAMPLE SITE: 3557, 3558
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-9-89
Attachment:

PROPERTY NAME: Silver Chief prospects

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, lead, copper

TYPE OF DEPOSIT: Veins in shears

QUAD SHEET: Mt. Ferguson

OWNERSHIP: Unknown

SEC: ,T: 9N ,R: 34E

North: 4276315 East: 393793

PRODUCTION: Unknown

HISTORY: Unknown but old.

DEVELOPMENT: A dozen or more shallow adits, prospect pits, and shaft.

GEOLOGY: The entire eastside of the canyon for approximately a mile has been prospected by shafts, adits and pits for precious metals in veins along shear and joints in the granite. Its possible that some of this ore was processed at the mill on the Silver Chief property. Some of the vein material from dumps showed galena-copper and possible silver sulfides.

REMARKS:

SAMPLE SITE: 3559

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-9-89

Attachment:

PROPERTY NAME: Silver King mine
OTHER NAMES: Gold Hill Claims
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Indian Head Peak
OWNERSHIP: Charles L. Miller, P.O. Box 451, Hawthorne, NV
SEC: 11 ,T: 8N ,R: 32E
North: 4269815 East: 380439
PRODUCTION: Reported to be \$500,000 which is thought to be high??
HISTORY: Prior to 1923, but no recent activity, at either these or the Montreal workings???
DEVELOPMENT: Several shafts, adits, prospects and loading facilities.
GEOLOGY: Workings follow a dominately north-trending vein system in dark-gray volcanic sediments of Triassic age. The workings at depth were reported to have followed a contact of rhyolite and granite, neither of which were seen at the surface. The dumps consist of vuggy, limonite-rich quartz veins and breccia.
REMARKS: Sample 3672 was taken from the dumps associated with the second shaft while sample 3673 was taken from ore-bin. The samples varied only in that the second sample had considerable manganese coatings.
SAMPLE SITE: 3672, 3673
REFERENCES: Lincoln, F.C., 1923, Mining Districts and Mineral Resources of Nevada, Reno, Nev. Newsletter Publ. Co. p. 143
EXAMINER: Jack Quade
DATE VISITED: 5-15-89
Attachment:

PROPERTY NAME: Silver Queen mine

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, antimony, lead

TYPE OF DEPOSIT: Fissure veins

QUAD SHEET: Win Wan Flat

OWNERSHIP: Unknown

SEC: ,T: 9N ,R: 33E

North: 4276863 East: 387796

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Three shafts, five adits, and prospect pits.

GEOLOGY: The workings are along a N20 degrees W trend and cover approximately a third of a mile. The trend follows a fissure vein system in Triassic sediments. The veins consist of quartz and iron-stained gouge that is mineralized, in part, with galena, stibnite, and possible silver sulfides.

REMARKS: There is some doubt that this property is the Silver Queen mine or that a Silver Queen mine exists. This property is just east of a power line road to a Radio Tower. The road provides the best access to this part of the district. A loading platform suggests some ore was shipped but it does not appear that any milling was done at the site.

SAMPLE SITE: 3646

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-5-89

Attachment:

PROPERTY NAME: Siskon Corp. claims

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Shear zones

QUAD SHEET: Win Wan Flat

OWNERSHIP: Siskon Corp., Reno, Nevada

SEC: ,T: 9N ,R: 33E

North: 4278346 East: 390911

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Open cuts and pits.

GEOLOGY: Highly altered, iron-enriched shear zones in rhyolite exposed by pits and trenches near a very old shaft. The zones crosscut the rhyolite. The area is mapped as part of the Singatse tuff and Guild Member of the Mickey Pass Tuff.

REMARKS: Bad roads west of Luning Road

SAMPLE SITE: 3696

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-17-89

Attachment:

PROPERTY NAME: Unnamed adit
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Kinkaid NW
OWNERSHIP: Unknown
SEC: ,T: 9N ,R: 32E
North: 4278896 East: 378974
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Shallow adits, prospects and trenches.
GEOLOGY: Several shallow adits and lessor workings follow a contact zone between Cretaceous granite and Triassic Luning limestone. The road stops well short of the workings and the canyon leading to them is strewn with skarn material as it follows the margin of the contact.
REMARKS: Very poor, almost impassable roads south of Win Wan Flat.
SAMPLE SITE: 3697
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Unnamed adit and prospect

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Win Wan Flat

OWNERSHIP: Unknown

SEC: ,T: 10N ,R: 33E

North: 4287144 East: 385816

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Adits and prospects

GEOLOGY: The line of workings follow a major N 30 degrees W-trending fault. The host rock is a highly altered volcanic intrusive near a contact with Jurassic Granite. Much of the volcanic intrusive has been argillically altered. Quartz stringers from within the shear contain pyrite and other sulfides.

REMARKS: Just west of main road.

SAMPLE SITE: 3694

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-17-89

Attachment:

PROPERTY NAME: Unnamed inclines
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Indian Head Peak
OWNERSHIP: Unknown
SEC: 1 ,T: 8N ,R: 32E
North: 4272059 East: 380844
PRODUCTION: There is a loading shoot but no production reported.
HISTORY: Unknown, but old
DEVELOPMENT: Four inclines, an adit and a loading shoot.
GEOLOGY: Inclines, adit, and shaft explore a N5 degrees W-dipping shear about four feet wide between metavolcanic units of Triassic age. All of the vein material is highly oxidized, silicified and without visible ore minerals.
REMARKS: About a mile west of the Paymaster Canyon Rd.
SAMPLE SITE: 3637
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-5-89
Attachment:

PROPERTY NAME: Unnamed prospect pits

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): barite, copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Kinkaid

OWNERSHIP: Unknown

SEC: 15 ,T: 8N ,R: 32E

North: 4268719 East: 377852

PRODUCTION: Unknown

HISTORY: Unknown but within the last 10 years.

DEVELOPMENT: A line of prospect pits and trenches.

GEOLOGY: The workings explore a north-trending vein in light-tan volcanic sediments of Triassic age. Copper oxides coat portions of the massive barite which measures up to 2 feet thick in places.

REMARKS: Poor roads north of Kinkaid.

SAMPLE SITE: 3670

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-15-89

Attachment:

PROPERTY NAME: Unnamed prospect pits

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): barite, copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Kinkaid

OWNERSHIP: Unknown

SEC: 15 ,T: 8N ,R: 32E

North: 4268719 East: 377852

PRODUCTION: Unknown

HISTORY: Unknown but within the last 10 years.

DEVELOPMENT: A line of prospect pits and trenches

GEOLOGY: The workings explore a north-trending vein in light-tan volcanic sediments of Triassic age. Copper oxides coat portions of the massive barite which measure up to 2 feet thick in places.

REMARKS: Poor roads north of Kinkaid.

SAMPLE SITE: 3670

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-15-89

Attachment:

PROPERTY NAME: Unnamed prospects

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver, copper

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Kinkaid NW

OWNERSHIP: Unknown

SEC: ,T: 10N ,R: 32E

North: 4287147 East: 374313

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: One shaft and numerous prospects.

GEOLOGY: Quartz veins and gouge were prospected by a line of workings that trend roughly N40 degrees W, following a major shear zone in granite. The granite is covered by a thin veneer of Tertiary sediments and gress within the trend but crops out to the west and appears in dumps. The major mineralization is copper.

REMARKS: Workings are on both sides of the main road and extend for about a quarter of a mile along the fissure.

SAMPLE SITE: 3647

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-6-89

Attachment:

PROPERTY NAME: Unnamed shaft

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): silver

TYPE OF DEPOSIT: Vein

QUAD SHEET: Kinkaid

OWNERSHIP: Unknown

SEC: 10 ,T: 8N ,R: 32E

North: 4269135 East: 378499

PRODUCTION: Some as there is a loading facility.

HISTORY: Unknown

DEVELOPMENT: A shaft

GEOLOGY: The dump is considerable and may represent several hundred feet of workings. The host rocks are Triassic volcanics and the vein material is dominately quartz and iron-stained, silicified gouge. The vein contains minor galena and probable silver sulfides.

REMARKS: Poor roads to the northwest of Kinkaid.

SAMPLE SITE: 3671

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-15-89

Attachment:

PROPERTY NAME: Unnamed shaft
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: Fissure vein
QUAD SHEET: Ryan Canyon
OWNERSHIP: Unknown
SEC: 16 ,T: 9N ,R: 31E
North: 4277738 East: 366319
PRODUCTION: Unknown
HISTORY: Unknown but old
DEVELOPMENT: Incline and prospects.
GEOLOGY: Vein in a shear zone is explored by a 80 degree incline in diorite but near contact. Structure trends N15 degrees E. Vein material on dump includes epidote and skarn minerals although the contact was not observed directly.
REMARKS: Old workings not accessible by road.
SAMPLE SITE: 3675
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Unnamed shafts and adits.

OTHER NAMES:

MINING DISTRICT: Fitting

COUNTY: Mineral

MINERAL COMMODITY(IES): gold

TYPE OF DEPOSIT: Fissure vein

QUAD SHEET: Ryan Canyon

OWNERSHIP: Unknown

SEC: 15 ,T: 9N ,R: 31E

North: 4278044 East: 368842

PRODUCTION: Unknown but workings include a loading platform

HISTORY: Unknown

DEVELOPMENT: Three adits and one shaft.

GEOLOGY: Three adits and a shaft explore a N 20 degree E-striking fissure vein that is stoped through to the surface in several places along the strike. At the surface, the host rocks are Tertiary volcanics but a short distance to the east there are granitic outcrops. The stoping and loading platform seem to indicate some vein material was removed for processing.

REMARKS: A stream drainage road east of Ryan Canyon is the only access.

SAMPLE SITE: 3677

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 5-16-89

Attachment:

PROPERTY NAME: Wimpy #5 claim
OTHER NAMES:
MINING DISTRICT: Fitting
COUNTY: Mineral
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Kinkaid NW
OWNERSHIP: Ken Palosky (1986), P.O. Box 395, Hawthorne, NV
SEC: 14 ,T: 9N ,R: 31E
North: 4277728 East: 370043
PRODUCTION: Unknown
HISTORY: Unknown but recent
DEVELOPMENT: Road building and dozer cuts.
GEOLOGY: Road-cut follows a contact between limestone and granite. An east-west vein in the road-cut revealed a shear with contact mineralization of garnet, epidote and scheelite. The skarn zone along the limited exposure is not more than 2 feet wide. The granite has been cut by a dark-gray porphyry near the mouth of the canyon.
REMARKS: New roads to the east not on the maps.
SAMPLE SITE: 3678
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-16-89
Attachment:

PROPERTY NAME: Copper Gulch No. 2 claim

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Bedell Flat

OWNERSHIP: Irwin Baker and Alton Jack (1968)

SEC: 15 ,T: 22N ,R: 19E

North: 4406910 East: 256940

PRODUCTION: None(?)

HISTORY:

DEVELOPMENT: Several pits, short adits and shallow shafts spread over several acres. There are at least 5 Copper Gulch claims

GEOLOGY: Malachite and limonite occur as fracture coatings in a N45W, 90 degree fault zone in Mesozoic grey biotite schist. The metamorphic foliation parallels the fault or shear zone. The zone is about 1m wide and is explored by a short inclined adit. The light colored altered(?) zone along the fault consists of sparse vein? quartz with sericite and biotite. Possibly the sericite is formed by the alteration of biotite. No sulfide minerals seen; I speculate that they were pyrite and chalcopyrite. The metamorphic rocks probably have a intermediate-composition protolith. This prospect resembles many others on the north end of Freds Mountain. Carl Wikstrom, who has prospected the area says bornite is present in a few places in workings on side of Fred's Mountain to the west of this locality.

REMARKS: Sample 3417 is select dump material of copper- and iron-stained rock from a mineralized zone in Mesozoic metamorphic rock.

SAMPLE SITE: 3417

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 12-3-86

Attachment:

PROPERTY NAME: Copper Ridge No. 1 claim

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Bedell Flat

OWNERSHIP: Lee Smith, Box 8266, Incline Village, NV

SEC: 19 ,T: 22N ,R: 20E

North: 4404394 East: 261484

PRODUCTION: None

HISTORY:

DEVELOPMENT: Two small prospect pits, a shallow (<5m) shaft (caved), and a short (<20m) adit.

GEOLOGY: A light gray, saccroidal quartz vein trends N50W, 90 degrees in hornblende-biotite granodiorite. The vein varies from 0.3 to 3m wide and contains sparse oxide copper minerals (copper pitch, chrysocollo, malachite) and limonite. South of the property, the granodiorite is veined with epidote and quartz.

REMARKS: Sample 4155 is select copper-bearing vein quartz from dump of shaft.

SAMPLE SITE: 4155

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 8-30-89

Attachment:

PROPERTY NAME: FF claims

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): titanium

TYPE OF DEPOSIT: Greisen

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 29 ,T: 22N ,R: 20E

North: 4403615 East: 263102

PRODUCTION: None(?)

HISTORY:

DEVELOPMENT: Two shallow shafts, one caved at about 10m and one caved at 3m. Bulldozer trenches.

GEOLOGY: Red rutile occurs in association with vuggy quartz and 2-4mm diameter books of muscovite along a N80W-trending greisenized zone in Mesozoic biotite quartz monzonite. The mineralized zone is explored by two shallow shafts and a bulldozer trench. The mineralized zone appears to dip steeply south(?) or be vertical. Also present in the wallrock are pink aplite dikes and a dike of dark greenish granodiorite porphyry with platy plagioclase phenocrysts up to 1 cm long and 1-2mm thick. Very sparse oxide copper minerals (chrysocolla?) are found in the greisen as well as very sparse limonite after pyrite. One large limonite replacement contained a small remnant chalcopyrite grain. The altered and mineralized zone may connect with a vertical zone exposed in a pit near a shallow inclined shaft 400m east of the west shaft shown on the topographic map (shown as a prospect near the road).

REMARKS: Photo 2 is of the deeper shaft. Sample 3431 is greisen with rutile selected from along the zone with the 2 shafts.

SAMPLE SITE: 3431

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 5-17-89

Attachment:

PROPERTY NAME: Finn shaft
OTHER NAMES: Frenchman shaft
MINING DISTRICT: Freds Mountain area
COUNTY: Washoe
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein?
QUAD SHEET: Bedell Flat
OWNERSHIP:
SEC: 2 ,T: 22N ,R: 19E
North: 4409410 East: 258925
PRODUCTION:
HISTORY: Above names reported to me by Carl Wikstrom
DEVELOPMENT: Shallow (approx. 8m) shaft, location is just east of building symbol shown on map. Building is now destroyed; only a few pieces of corrugated sheet metal remain.
GEOLOGY: The shaft is along a strongly falsated zone (N65E, 90 degrees) which seems to occur near a contact between Mesozoic quartz monzonite on the northwest and granodiorite on the southeast. The zone itself may be skarnoid-like feature or a strongly metamorphosed sliver of Mesozoic metavolcanic? rock or some type of schlieren. Quartz, feldspar, epidote and amphibole were recognized. Chrysacalla and limonite coat fractures of wallrock; and very sparse vein quartz. Some boxworks after pyrite? were observed in the quartz.
REMARKS: Sample 3409 is select quartz vein matter and metamorphic wallrock with iron and copper oxide minerals.
SAMPLE SITE: 3409
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 11-19-86
Attachment:

PROPERTY NAME: Millers Titanium claims

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): titanium

TYPE OF DEPOSIT:

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 26 ,T: 22N ,R: 19E

North: 4403830 East: 258985

PRODUCTION: None

HISTORY:

DEVELOPMENT: Several pits and backhoe trenches

GEOLOGY: The rock exposed on several low hills appears to be altered Mesozoic granodiorite. The rock has a few re/pct textures, but is mainly quartz, sericite, and limonite. The limonite occurs as fracture coatings and as pseudomorphs after sulfide minerals. The area of alteration is about 600m east-west by 200m north-south. A similar prospect to this area is located about 400m east at the main range front. This prospect is similar to one 2 Km to the west at locality 3422. Small (1mm diameter) rutile crystals occur disseminated in the greisen-like rock here at the Millers claims.

REMARKS: Sample 3423 is a grab from a trench.

SAMPLE SITE: 3423

REFERENCES: Beal, L. H. (1963) investigation of titanium occurrences in Nevada: Nevada Bureau of Mines

EXAMINER: L. J. Garside

DATE VISITED: 5-13-87

Attachment:

PROPERTY NAME: Nash Copper

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 10 ,T: 22N ,R: 19E

North: 4408300 East: 257265

PRODUCTION: None

HISTORY:

DEVELOPMENT: Two or three short adits with caved portals.

GEOLOGY: Several short adits and nearby bulldozer cuts explore an area of iron staining and sericitic alteration? in medium gray intermediate-composition Mesozoic metavolcanic rocks. The iron-stained area is in and adjacent to a north-northeast fault which appears to form the east boundary of Fred's Mountain. The rocks are locally sheared and brecciated. Except for iron, no metallic minerals were observed. There are no high concentrations of limonite; no vein quartz of any significance was noted. The reason for the workings is unknown. Nearby prospects (sample 3411-13) contain oxidized copper minerals.

REMARKS: Sample 3414 is of grab limonite-stained rock with a high concentration of sericite. Collected from outcrops near adit portals.

SAMPLE SITE: 3414

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 12-2-86

Attachment:

PROPERTY NAME: Section 29 adit
OTHER NAMES:
MINING DISTRICT: Freds Mountain area
COUNTY: Washoe
MINERAL COMMODITY(IES): unknown
TYPE OF DEPOSIT: Unknown
QUAD SHEET: Bedell Flat
OWNERSHIP:
SEC: 29 ,T: 22N ,R: 19E
North: 4403850 East: 254360
PRODUCTION: None
HISTORY:
DEVELOPMENT: Small dump of caved adit.
GEOLOGY: The reason for this prospect is obscure. The wallrock and all rock on dump is fresh Mesozoic quartz diorite. A prospect 250m southwest (typo map) appears to have some fresh rock on dump but wasn't visited. A burrow pit for road metal is located in the canyon 400m southwest; it is used sporadically.
REMARKS: No sample collected.
SAMPLE SITE: none collected
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 12-4-86
Attachment:

PROPERTY NAME: Section 35 prospect

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: porphyry

QUAD SHEET: Griffith Canyon

OWNERSHIP:

SEC: 35 ,T: 22N ,R: 20E

North: 4401297 East: 267644

PRODUCTION: None

HISTORY:

DEVELOPMENT: Bulldozer road and cut

GEOLOGY: Malachite occurs with limonite as spotty fracture coatings in Mesozoic granodiorite porphyry. A few pieces of quartz vein material were noted on the dumps, but no sulfide minerals were observed in them or along the mineralized fractures. The granodiorite porphyry has a dark gray matrix with white plagioclase phenocrysts. It is mapped as part of the main body of granitic plutonic rocks in the range here by Bonham (1969), but may be either a border or hybrid phase or, possibly, some Jurassic? porphyry related to Peavine sequence volcanism. More mapping is necessary to confirm this speculation. The rock is locally rich in (secondary?) biotite. Sample RGC-87 for thin section.

REMARKS: Sample 4144 is select granodiorite porphyry with malachite and limonite on fractures. From dump.

SAMPLE SITE: 4144

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 7-10-89

Attachment:

PROPERTY NAME: Snow Cloud claim

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Bedell Flat

OWNERSHIP: Jack Alton & Yuri W. Baker (1968)

SEC: 9 ,T: 22N ,R: 19E

North: 4408340 East: 256025

PRODUCTION: None

HISTORY:

DEVELOPMENT: Several shallow pits and bulldozer cuts.

GEOLOGY: Limonite and hematite gossan and boxworks occur with malachite and very sparse vein quartz along and within a N40W, 55NE fault zone in Mesozoic meta-andesite. The fault is 10-20cm; iron- and copper-staining occur over a width of about 1m. The mineralized zone is parallel to regional(?) metamorphic falsation.

REMARKS: A sample of select gossan and iron-stained rock was collected from dumps and outcrop sample 3411.

SAMPLE SITE: 3411

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 12-1-86

Attachment:

PROPERTY NAME: Tasha-Me prospect

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): gold, silver, copper (?)

TYPE OF DEPOSIT: Vein

QUAD SHEET: Bedell Flat

OWNERSHIP: Michael Robbins & Edward Kusal, Reno (1984)

SEC: 27 ,T: 22n ,R: 19e

North: 4404060 East: 256460

PRODUCTION: None?

HISTORY:

DEVELOPMENT: Short adit; possibly other minor workings up canyon to west. Adit trends southwest.

GEOLOGY: A short adit (with locked door) is cut in Mesozoic quartz diorite. The rock at the portal is fresh. A small amount of quartz vein matter and iron-stained wallrock was apparently encountered at back of adit, as it is seen only on end of dump. No metallic minerals, noted; sercite occurs with vein quartz.

A revisit on the following day: The adit described above apparently was headed to intersect a N40W, 90 degree fault zone on the hillside above. It is not certain if it cut the fault. Possibly the adit with the door is a powder house. The fault can be traced for about 125m, is about 1m wide at one exposure, and consists of spotty? brecciated quartz, gouge, and sericitized wallrock (quartz diorite). Outside the 1m mineralized zone the wallrock is fresh except for a few narrow K-feldspar? envelopes along fractures. The mineralized fault contains quartz, jarosite, limonite, malachite and copper pitch (rare).

REMARKS: Sample 3415 is select vein quartz and iron-stained Mesozoic quartz diorite from dump of adit in canyon with mostly fresh rock on dump and locked door. Sample 3416 is select quartz vein matter with limonite, malachite, jarosite, and sparse copper pitch.

SAMPLE SITE: 3415

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 12-2-86; 12-3-86

Attachment:

PROPERTY NAME: Till Then claim
OTHER NAMES:
MINING DISTRICT: Freds Mountain area
COUNTY: Washoe
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Bedell Flat
OWNERSHIP: Renolda Miller, Mary Brown, Luther Hopkins (May 1984)
SEC: 1 ,T: 22N ,R: 19E
North: 4409960 East: 260145
PRODUCTION: None
HISTORY:
DEVELOPMENT: Short bulldozer cut and small prospect pit
GEOLOGY: Prospect explores a N10E, 40 degree SE fault zone in Mesozoic quartz monzonite. The fault has a 15cm gouge zone and local patches of iron-stained, brecciated vein quartz up to 60cm. The vein quartz is quite spotty, and only one patch was observed in outcrop. The white to clear quartz contains limonite concentrations which may represent boxworks after copper or from sulfide minerals in part. Very minor green copper stain was noted. The vein and wallrock are overlain just uphill (east) by ignimbrite, the tuff of Whisky Springs. Vein quartz similar to this was observed as blocks in this tuff 3 km to the west.
REMARKS: Sample 3410 is of iron-stained, brecciated vein quartz with rare copper stain; from outcrop and dump; grab of vein matter, L. Garside field note RBF-58n.
SAMPLE SITE: 3410
REFERENCES:
EXAMINER: L. J. Garside
DATE VISITED: 11-18-86
Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 19 ,T: 22N ,R: 20E

North: 4404678 East: 261263

PRODUCTION: None

HISTORY:

DEVELOPMENT: One small prospect pit.

GEOLOGY: A small prospect pit explores an epidote-quartz-diopside(?) vein or mineralized zone. Limonite (after pyrite?) and chrysocolla (on fractures) occur in the zone. The mineralized zone is very short, and appears to trend in a northerly direction.

REMARKS: Sample 4154 is select copper-stained epidote-quartz vein matter.

SAMPLE SITE: 4154

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 7-30-89

Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): unknown

TYPE OF DEPOSIT: Quartz vein

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 10 ,T: 22N ,R: 19E

North: 4408720 East: 257460

PRODUCTION: None

HISTORY:

DEVELOPMENT: One small pit with old car body (VW) in it.

GEOLOGY: A strongly sheared and brecciated white, massive, iron-stained quartz vein is exposed for a strike length of about 60m. The vein is up to 25m wide, and has a 3-4m parallel vein on each side. The wallrock is not well exposed, but is probably Mesozoic metavolcanic rocks cut? by granodiorite? porphyry dikes. The vein trends N35W; shears within the vein have this same bearing and dip generally 75 degrees northeast. Limonite and sparse hematite? occur as masses, coatings, and boxworks.

REMARKS: A grab sample was collected from the outcrop of vein matter (Sample 3408). The sample consists of white vein quartz and limonite.

SAMPLE SITE: 3408

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 11-20-86

Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: fault zone

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 9 ,T: 22N ,R: 19E

North: 4407930 East: 256195

PRODUCTION: None

HISTORY:

DEVELOPMENT: Bulldozer cut, very small pit, shallow drill hole.

GEOLOGY: Sparse copper stain (malachite) occurs in an area of phyllic alteration or metamorphism (sericite) in light gray meta-andesite (Mesozoic). The sericitized zone is about 20m wide and is in the footwall of a N80W, 40 NE fault.

REMARKS: Select sample no. 3412 collected of malachite-stained, sericitized meta-andesite.

SAMPLE SITE: 3412

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 12-1-86

Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): gold, silver, titanium (?)

TYPE OF DEPOSIT:

QUAD SHEET: Reno NE

OWNERSHIP: Unknown

SEC: 27 ,T: 22N ,R: 19E

North: 4403110 East: 245995

PRODUCTION: None

HISTORY: Unknown

DEVELOPMENT: A 6m shaft

GEOLOGY: A shallow shaft was sunk on a small area (about 100m in diameter) of altered granite?, which seems to intrude Mesozoic foliated granodiorite. The rock on the dump consists of a somewhat porous mass of mainly crystalline quartz, with muscovite in up to 3mm books and sparse to rare black tourmaline. Brown and yellow iron-oxide minerals coat fracture and occur as probable pseudomorphs after pyrite. Locally, it is possible to see less altered rock, which appears to be a felsic granite with sparse biotite?

REMARKS: Sample 3422 is select dump material.

SAMPLE SITE: 3422

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 5-12-87

Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 10 ,T: 22N ,R: 19E

North: 4407930 East: 256195

PRODUCTION: None

HISTORY:

DEVELOPMENT: Several bulldozer cuts

GEOLOGY: Spotty vein quartz with limonite and sparse malachite occurs in medium-gray meta-andesite. The vein not well exposed; fragments in a pit suggest a northerly trend and width of 0-8cm. More extensive cuts about 75m east contain malachite as fracture coatings on meta-andesite.

REMARKS: Sample 3413 is select vein with malachite and limonite.

SAMPLE SITE: 3413

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 12-1-86

Attachment:

PROPERTY NAME: zz unknown

OTHER NAMES:

MINING DISTRICT: Freds Mountain area

COUNTY: Washoe

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: quartz vein

QUAD SHEET: Bedell Flat

OWNERSHIP:

SEC: 24 ,T: 22N ,R: 19E

North: 4403840 East: 260665

PRODUCTION: None

HISTORY:

DEVELOPMENT: A bulldozer cut and several small prospect pits

GEOLOGY: Minor prospecting has been done along a northwest?-trending zone which has several prospect pits along it. Ocherous limonite occurs at some pits, and spotty vein quartz with some open-space textures was noted on two small pit dumps. The wallrock is granodiorite.

REMARKS: Sample 3424 is select vein quartz from a shallow pit.

SAMPLE SITE: 3424

REFERENCES:

EXAMINER: L. J. Garside

DATE VISITED: 5-13-87

Attachment:

PROPERTY NAME: B. H. claims
OTHER NAMES:
MINING DISTRICT: Gabbs Valley area
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: intrusive contact
QUAD SHEET: Ramsey Spring
OWNERSHIP:
SEC: 35 ,T: 12N ,R: 33E
North: 4302611 East: 393567
PRODUCTION: unknown, probably small
HISTORY: unknown
DEVELOPMENT: Cuts, short winze, 10-foot adit
GEOLOGY: Iron-oxide-stained, kaolinized, porphyry dike cuts silicated hornfels;
dike is up to 4-feet thick, strikes N60E, dips 45 degrees SE; lenses of red
hematite-stained gouge along contact. The hornfels is a dense, greenish rock
with thin bedding
REMARKS: zone has been prospected for some distance to the NW
SAMPLE SITE: 4047
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 31, 1989
Attachment:

PROPERTY NAME: Ball Bearing mine

OTHER NAMES:

MINING DISTRICT: Gabbs Valley area

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Ramsey Spring

OWNERSHIP:

SEC: 36 ,T: 11N ,R: 33E

North: 4292020 East: 394757

PRODUCTION: small

HISTORY: unknown

DEVELOPMENT: Cut into hillside, small stoped area (?), remains of small crushing-milling facility, probably never operational

GEOLOGY: Cut exposes N30W, near-vertical fault zone; a breccia zone, about 20 feet wide is exposed along the fault; zone is rubble breccia, large rhyolite clasts with rounded surfaces in a matrix of buff clay and alunite (?), fragments of kaolinized rock in clay matrix; cut exposes a pipe-like mass of breccia with sheared boundary in a greenish, propylitically-altered tuff; there is lots of clay gouge and hematite-stained "slicks" along the boundary fault zone

REMARKS:

SAMPLE SITE: 4046

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 31, 1989

Attachment:

PROPERTY NAME: Black Hills prospect

OTHER NAMES:

MINING DISTRICT: Gabbs Valley area

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein

QUAD SHEET: Mount Annie

OWNERSHIP:

SEC: 25 ,T: 12N ,R: 33E

North: 4303604 East: 395074

PRODUCTION: unknown, probably small

HISTORY: unknown

DEVELOPMENT: Shallow trenches and bulldozer scrapings

GEOLOGY: Trenches in a small basin expose thin, flat-lying quartz veins which cut fractured hornfels and meta-volcanic rocks. Bedding in the hornfels strikes N20E, dips 40 degrees NW. The rock is cut by N80E, near-vertical fractures. All fracture surfaces and some bedding surfaces are flooded with iron-oxide staining and some manganese-oxide staining; some surfaces are coated with gypsum. Branching, intersecting quartz veins follow a N20W strike and dip 20-25 degrees NE; the veins are lenticular, rang from 1- to 6-inches in thickness, are brecciated and have clear gypsum along their walls and coating fractures within them. Veins traces are marked by a white sulfate efflorescence. The mainly milky white veins have some clear subhedral quartz crystals in vugs in their centers; the vein material contains pods of galena and cerussite and is copper-stained in some areas.

REMARKS: Mining appears to have been a hand-picking operation. A backhoe or a small bulldozer made the cuts; exposed vein material was then hand-sorted and hand-loaded into used, 50-gallon cyanide drums for shipment. A dozen or more partially-filled drums remain scattered along the trenches and cuts

SAMPLE SITE: 4048

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: May 31, 1989

Attachment:

PROPERTY NAME: Goose Claim 386
OTHER NAMES: Rex claims (?)
MINING DISTRICT: Gabbs Valley area
COUNTY: Nye
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Granny Goose Well
OWNERSHIP:
SEC: ,T: ,R:
North: 4285933 East: 414053
PRODUCTION: minor, amount unknown
HISTORY: unknown, old retort foundations may date to 1930's
DEVELOPMENT: Two old retort foundations; adit driven at N60W bearing about 120 feet into hill to intersect structure; cuts and drill roads surround small knob.
GEOLOGY: Kaolinized, alunited, silicified hydrothermal breccia formed along N05W-striking, 55 degree NE-dipping shear zone in silicified, rhyolite ash-flow tuff. The tuff is fractured, fractures are stained with dull red hematite. The fracture zone is NS, but is cut by flat structures, possibly flow features. The breccia mass along the N05W structure forms an approx. 15x25 foot, rectangular outcrop surrounded by altered, iron-oxide-stained tuff. Wall rock is alunited, masses of sugary, white quartz and tan, crystalline alunite cut rock. Rock is also sparsely veined with dark silica/marcasite veinlets.
REMARKS: Some of the access roads to the prospect have been reclaimed by diskings
SAMPLE SITE: 4066
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 18, 1989
Attachment:

PROPERTY NAME: Lithia mine
OTHER NAMES:
MINING DISTRICT: Gabbs Valley area
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz vein, breccia
QUAD SHEET: Ramsey Spring
OWNERSHIP: Unknown
SEC: 36 ,T: 12N ,R: 32E
North: 430095 East: 394099
PRODUCTION: Possible, but no records.
HISTORY: Unknown
DEVELOPMENT: Adits
GEOLOGY: A line of adits follows a N25 degree E heading in diorite. The exposed vein consists of iron-stained, vuggy quartz and breccia.
REMARKS: Very poor roads, recently washed out.
SAMPLE SITE: 3708
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-18-89
Attachment:

PROPERTY NAME: Lucky Day # 197 shaft
OTHER NAMES:
MINING DISTRICT: Gabbs Valley area
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Mount Annie
OWNERSHIP: Ken Palosky
SEC: 8 ,T: 12N ,R: 34E
North: 4307858 East: 397488
PRODUCTION: unknown, small
HISTORY: unknown
DEVELOPMENT: Vertical shaft, est. 100 feet deep, headframe in place, timbered at collar,
GEOLOGY: Shaft sunk on N15W, vertical quartz vein formed in shear zone in dense, greenish-black, meta-andesite. Volcanic rock strikes N40W, dips 20 degrees NE; vein is about 4 feet thick at the shaft collar, is split into two segments, 1-foot-thick segment on the east wall with horse of sheared wallrock then 2- to 3-foot-thick brecciated segment on west wall. Vein is iron-oxide-stained on fractured surfaces, is massive with some clots of pyrite, copper-oxide staining, one fleck free gold seen.
REMARKS: Several old trenches cross-cut structure; one cut exposes vein about 100 feet south of the shaft
SAMPLE SITE: 4050
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 31, 1989
Attachment:

PROPERTY NAME: Poinsettia mine
OTHER NAMES:
MINING DISTRICT: Gabbs Valley area
COUNTY: Mineral
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Poinsettia Spring
OWNERSHIP: V.S. Baxter, Fallon, Nevada
SEC: 33 ,T: 11N ,R: 33E
North: 4292776 East: 390328
PRODUCTION: None reported
HISTORY: Discovered in 1929
DEVELOPMENT: A 175 foot shaft and about 600 feet of drifts and crosscuts
GEOLOGY: The ore occurs along a N 63 degree W-striking, nearly vertical, fault in altered andesite tuffs. Mineralization is confined to small high-grade veins and veinlets adjacent to the fault. The cinnabar is associated with pyrite, chalcedony, sulfur, gypsum and clay.
REMARKS: Although there has not been any recorded production, considerable ore is stockpiled near the shaft.
SAMPLE SITE: 3693
REFERENCES: Phoenix and Bailey, 1944, Quicksilver Deposits in Nevada: Geology and Mining Series No. 41
EXAMINER: Jack Quade
DATE VISITED: 5-17-89
Attachment:

PROPERTY NAME: Rex No. 4 claim
OTHER NAMES: Rex claims
MINING DISTRICT: Gabbs Valley area
COUNTY: Nye
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Gabbs Mountain
OWNERSHIP:
SEC: ,T: ,R:
North: 4286193 East:
PRODUCTION: Small, unknown
HISTORY: unknown
DEVELOPMENT: Cut, short adit and winze, remains of retort
GEOLOGY: Workings explore rubbly breccia zone in silicified volcanic ash or mud flow; breccia mass formed between N30E-striking, vertical to 60NW-dipping shear zone and N70E-striking, 45 to 75 SE-dipping shear zone; breccia is open, clast-supported, rock is silicified with sugary silica between fragments, some hematite staining and some clots of native sulphur.
REMARKS: Ruins of small brick furnace is located west of open cut, small pile of burned rock indicated some production
SAMPLE SITE: 4068, 4069
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 18, 1989
Attachment:

PROPERTY NAME: Rex No. 6 claim
OTHER NAMES: Rex claims
MINING DISTRICT: Gabbs Valley area
COUNTY: Nye
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Gabbs Mountain

OWNERSHIP:

SEC: ,T: ,R:

North: 4286576 East: 411582

PRODUCTION: Small, but unknown

HISTORY: unknown

DEVELOPMENT: Two adits and bulldozer cuts, crushing plant and retort remains in building near adits; mine camp remains located south of wash, south of mine.

GEOLOGY: Small hill north of old retort plant is silicified breccia mass formed along N15E-striking, 70NW-dipping and N50W-striking, near-vertical structural intersection. Other silicified masses also form outcrops to north and west; rock surrounding the silicified knobs is soft, punky, kaolinized tuff laced with chalky, yellow-tan alunite veinlets--veinlets are more or less random and are up to 1 inch thick. Sparse visible cinnabar located in the brecciated rock along with limonite staining and some native sulphur.

REMARKS: Piles of burned rock located by old furnace plant and across wash to the south indicate some production of mercury.

SAMPLE SITE: 4301

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 18, 1989

Attachment:

PROPERTY NAME: Rita mine
OTHER NAMES:
MINING DISTRICT: Gabbs Valley area
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: shear zone; disseminated
QUAD SHEET: Ramsey Spring
OWNERSHIP:
SEC: 36 ,T: 12N ,R: 33E
North: 4302863 East: 395658
PRODUCTION: unknown, small
HISTORY: unknown
DEVELOPMENT: Inclined shaft, stopes, cuts
GEOLOGY: Shaft was sunk on a N25E, vertical shear zone in fine-grained diorite; shear surfaces have films of epidote. Rock on the dump has films of green copper-oxide minerals on fracture surfaces. Rock is chloritized and has limonite-after-pyrite casts throughout it.
REMARKS: Shaft is timbered at the collar and has rail still in place, inclined about 45 degrees to SW; ore was hoisted into ore bin, now removed, and shipped elsewhere for sale/treatment
SAMPLE SITE: 4049
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: May 31, 1989
Attachment:

PROPERTY NAME: Sample site 4067
OTHER NAMES: Rex claims (?)
MINING DISTRICT: Gabbs Valley area
COUNTY: Nye
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Granny Goose Well
OWNERSHIP:
SEC: ,T: ,R:
North: 4286422 East: 413150
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Bulldozer cuts and drill roads on east slope of small hill; large portal cut into hill
GEOLOGY: N60W-striking, 40SW-dipping fracture zone in rhyolite tuff is exposed in portal. Flat-lying, silicified, quartz-sulfide breccia also exposed in opening. Crystalline masses of gypsum cover hillslope below portal.
REMARKS:
SAMPLE SITE: 4067
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: July 18, 1989
Attachment:

PROPERTY NAME: Galena Hill mine
OTHER NAMES:
MINING DISTRICT: Galena
COUNTY: Washoe
MINERAL COMMODITY(IES): lead, zinc, silver, gold
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Washoe City
OWNERSHIP:
SEC: 6 ,T: 17N ,R: 20E
North: 4361215 East: 260279
PRODUCTION: 60 tons ore
HISTORY: Ore produced in 1929, no record of ore grade
DEVELOPMENT: Several old prospect pits; entire area is now within the limits of a large gravel operation, all of the old base-metal mine workings have been removed by stripping around the upper part of the gravel pit
GEOLOGY: Mineralization occurs in a fault zone which cuts fine-grained hornfels. The mineralized zone strikes N80E, is near-vertical, and ranges in width from a few inches up to 5 feet. Mineralization exposed at surface consists of oxidation products of the original sulfides; fractures are coated with green copper-oxide minerals and iron-oxides. Some cerrussite and hemimorphite are present.
REMARKS: At present, it is not possible to see evidence of the old mine workings mentioned by Humphrey (1945)
SAMPLE SITE: 4060
REFERENCES: Bonham, 1969; Humphrey, 1945
EXAMINER: J. V. Tingley
DATE VISITED: June 13, 1989
Attachment:

PROPERTY NAME: Rocky Hill mines

OTHER NAMES:

MINING DISTRICT: Galena

COUNTY: Washoe

MINERAL COMMODITY(IES): tungsten(?)

TYPE OF DEPOSIT: vein

QUAD SHEET: Washoe City

OWNERSHIP:

SEC: ,T: ,R:

North: 4359091 East: 261784

PRODUCTION: none

HISTORY: unknown

DEVELOPMENT: Trenchs, possibly caved adit

GEOLOGY: Workings are along a N10E-striking, 55-degree dipping white quartz vein, vein is pod-like, 6 inches to 2 feet thick, slickensides on vein surfaces, manganese-oxide staining; vein is vuggy, cavities contain clots of hematite gossan. Wallrock is fine-grained metavolcanic rock, some spotted schist. Wall rock is included in some vein segments. No identifiable metallic minerals were noted; no scheelite was seen under UV lamp.

REMARKS: Subdivision is expanding onto mine area, access to mines is now blocked

SAMPLE SITE: 4322, 4323

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 21, 1989

Attachment:

PROPERTY NAME: Sample site 4321

OTHER NAMES:

MINING DISTRICT: Galena

COUNTY: Washoe

MINERAL COMMODITY(IES): lead, zinc, silver

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Washoe City

OWNERSHIP:

SEC: ,T: ,R:

North: 4355416 East: 261437

PRODUCTION: unknown

HISTORY: unknown

DEVELOPMENT: Adits and cuts extending from canyon to top of hill

GEOLOGY: Workings explore N80W-striking, 45 degree SW-dipping shear zone in hornfels (meta-rhyolite and phyllite) in small pendant of metamorphic rock enclosed in granite. Rocks are sheared along the northwest trend, flooded with iron-oxide staining along fractures. Lenses and veins of white quartz up to one foot thick follow the shear zone; quartz contains clots of pyrite and sparse galena, is slightly vuggy with clear, acicular quartz crystals in vugs. Some wall rock is brecciated and cemented with quartz and hematite gossan. At the top of the hill to the east, a N25W-striking, near-vertical fault zone is exposed in shallow shafts; this structure may cut off the veins on their east end. The hill slope south of the old workings is littered with quartz/feldspar pegmatite float; some of the quartz contains euhedral, black tourmaline crystals.

REMARKS:

SAMPLE SITE: 4321

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 21, 1989

Attachment:

PROPERTY NAME: Union mine

OTHER NAMES:

MINING DISTRICT: Galena

COUNTY: Washoe

MINERAL COMMODITY(IES): lead, zinc, silver, gold

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Washoe City

OWNERSHIP:

SEC: ,T: ,R:

North: 4358898 East: 259728

PRODUCTION: moderate

HISTORY:

DEVELOPMENT: At the main mine, a west-trending adit is collared in alluvium and extends into metamorphic rocks, portal is locked. Some mining equipment is stored in locked compound at the portal. To the northwest, along trend two adits explore the zone. One major adit extends southeast, a smaller adit extends to the northwest.

GEOLOGY: No geologic relationships are visible at the main portal; workings are reported to be in a lense of Jurassic/Triassic metamorphic rocks. To the northwest, along strike, workings are in hornfels and metavolcanic rocks; rocks are sheared and contain pods and lenses of sulfides. Uphill, southwest of large adit, a N40W-striking, about 45 degree SW-dipping rhyolite dike cuts metamorphic rocks. Mine workings are in the metamorphic rocks but appear to parallel the dike contact. Mineralized rock found on mine dumps in both areas consists of lenses and pods of fine-grained galena, sphalerite, and pyrite in chlorite-rich quartz-mica schist. The rock is silicated and silicified.

REMARKS: The main mine has been used at times in the last few years as a training mine for students at the Mackay School of Mines, UNR. A small shack has been built in the last year or two at the northwest adit, building is built over the adit portal; adit is now caving.

SAMPLE SITE: 4319, 4320

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 21, 1989

Attachment:

PROPERTY NAME: Bentley prospects
OTHER NAMES:
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: skarn, vein
QUAD SHEET: Mount Siegel
OWNERSHIP:
SEC: 3 ,T: 12N ,R: 21E
North: 4312300 East: 0273850
PRODUCTION: none
HISTORY: unknown
DEVELOPMENT: Two adits
GEOLOGY: Adits are driven in grey limestone and granular, grey marble. Some calcite veinlets cut carbonates, could be evidence of skarn development but no skarn present on dump. No obvious mineralization present.
REMARKS: Mapped and designated as a National Fallout Facility in 1969 (Facility No. 05084)
SAMPLE SITE:
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: Dec. 16, 1988
Attachment:

PROPERTY NAME: Danite mine
OTHER NAMES: Veta Grande, south; Silver Queen; Nevada Queen; Schultz Antimony
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver, antimony
TYPE OF DEPOSIT: quartz-adularia vein (?)
QUAD SHEET: Double Spring
OWNERSHIP:
SEC: 10 ,T: 11N ,R: 21E
North: 4300545 East: 273176
PRODUCTION: 4 tons antimony metal
HISTORY:
DEVELOPMENT: Pits, prospects, and a caved adit
GEOLOGY: Host rocks are Jurassic-Triassic meta-andesite which have been intruded by felsitic dikes; both wall rocks and the dike have been flooded by silica. The workings explored a large, silicified dike that extends southeast from the Veta Grande mine; the silica-rich structure is up to 50-feet-wide, is composed of vein quartz, some chalcedonic quartz, quartz breccia and commonly contains pyrite.
REMARKS: Lawrence, 1963, p. 41, reports stibnite present in the quartz vein material; some of the fine-grained sulfides noted may be stibnite.
SAMPLE SITE: 4436, 4437
REFERENCES: Lawrence, E.F., 1963, NBMG Bulletin 61.
EXAMINER: Jack Quade
DATE VISITED: July 13, 1989
Attachment:

PROPERTY NAME: Gardnerville mine
OTHER NAMES: Alpine mine
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mount Siegel
OWNERSHIP:

SEC: 25 ,T: 12N ,R: 21E
North: 4305540 East: 0276350

PRODUCTION: 12,938 units WO3

HISTORY: First operated in 1937 when 723 units WO3 were produced; main production period was between 1951-56 when over 12,000 units WO3 were produced.

DEVELOPMENT: Two shafts with several thousand feet of underground workings, many surface pits and trenches. Area is cut by recent drill roads and many drill sites are present; drilling was done in the late 1960's when the area was explored for porphyry molybdenum.

GEOLOGY: Inclined, timbered shaft at old millsite follows a N80W, 40 degree SW-dipping skarn band. The band, exposed in the hanging wall of the shaft, is about 18 inches thick. A second skarn band, about 4 to 5 feet thick, lies in the footwall of the shaft and is separated from the thinner zone by about 10 feet of marbleized limestone. The thicker skarn bed is composed of massive, red-brown garnet with some epidote. Clots of scheelite are visible in some of the rock; the scheelite lumps yellow-gold to cream white under UV light.

REMARKS: The area explored for porphyry molybdenum includes the old tungsten workings but it is not clear if the tungsten-bearing skarn deposits are the same age as the porphyry molybdenum occurrence.

SAMPLE SITE: 3455

REFERENCES: Stager, H.K., and Tingley, J.V., 1988, Tungsten deposits of Nevada, Nevada Bureau of Mines and Geology Bulletin 105.

EXAMINER: J.V. Tingley

DATE VISITED: Dec. 16, 1988

Attachment:

PROPERTY NAME: Gold prospect 1
OTHER NAMES: Sections 2 and 3 prospects
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: skarn, vein
QUAD SHEET: Mount Siegel
OWNERSHIP:
SEC: 3 ,T: 12N ,R: 21E
North: 4311950 East: 0274190
PRODUCTION: unknown
HISTORY: unknown; workings appear to be very old, perhaps dating from the 1860's. Thompson & West state that prospecting was underway in these mountains in 1859, work in this area may date from that time.
DEVELOPMENT: Old, inclined shaft is exposed on the east side of a wash, recent, small-scale bulldozer work has been done in the wash and along both slopes, drill sites have been prepared and several cased drill holes were noted
GEOLOGY: Stopes developed from the inclined shaft follow a N35-40E. 40 degree SE-dipping shear zone in limestone. Large blocks of altered limestone with pods of milk-white vein quartz and calcite along with clots of chlorite occur within the shear zone. The shear zone seems to be related to a skarn zone that follows a NE-trending granodiorite-carbonate contact zone. The shape and form of the old stopes indicates that the quartz-calcite pods were what was being mined. The quartz\calcite pods are stained with both manganese and iron oxides. Chloritized granodiorite crops out to the east of the old workings and dike-like bodies of it occur in the draw to the west of the old shaft. Other old shaft dumps in the area west of the incline contain both granodiorite and weakly developed epidote skarn. The hill to the west is composed of dark grey carbonate rock, possibly dolomite; the rock is bleached and marbleized where it is exposed in the draw, probably near contact with granodiorite. The carbonate rock is laced with quartz and calcite veinlets; clots and masses of dark green chlorite occur along the contact\shear zone. No evidence of any metallic minerals were noted except for abundant iron and manganese oxides.
manganese oxides.
REMARKS: Other workings in the area of the incline shaft consist of numerous shallow shafts, short adits, and cuts that generally follow the NE contact trend. The workings are shallow dog-holes and appear to be old. Stonework indicates 1860-70's age. Current activity is confined to short back hoe trenches and some drilling. Some of this work may be exploration of shallow placer gravels in the wash down-drainage from the mine workings.
SAMPLE SITE: 3299
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: Dec. 14, 1988
Attachment:

PROPERTY NAME: Gold prospect 2

OTHER NAMES:

MINING DISTRICT: Gardnerville

COUNTY: Douglas

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: skarn, vein

QUAD SHEET: Mount Siegel

OWNERSHIP:

SEC: 2 ,T: 12N ,R: 21E

North: 4312000 East: 0274760

PRODUCTION: unknown

HISTORY: unknown, old workings may date from the 1860's

DEVELOPMENT: Three vertical shafts, one inclined shaft, an adit, and cuts

GEOLOGY: Rock cropping out in the area of the shafts is sheared, chloritized, diorite with epidote coating fracture and joint surfaces. About 50 feet east of the inclined shaft, the rock changes to bleached, marbleized carbonate. An E-W trending fault is exposed in a shallow shaft here and shows limestone to the east of the fault; limestone strikes about N-S and dips 20-30 degrees W, diorite here is finer grained than that exposed to the west near the inclined shaft.

Dump material at the western shaft area consists of milky white, vein quartz containing clots chlorite, large hematite-after-pyrite casts. Exposed vein strikes N-S, is near-vertical, about 4 feet wide. Vein is more of a lenticular pod of brecciated, milky-white quartz than it is a continuous vein. At the inclined shaft to the east of the N-S vein, stoping followed a N30E, 25-30 degree NE-dipping, brecciated quartz lense that follows a shear zone in diorite. Vein is about 18 inches thick but other thin veins lace the walls of the shear zone. Diorite is chloritized. Although some veining and fracturing in this area follow N-S trends, the main structural/vein/mining trend is N30-40E and is possibly related to the diorite-carbonate contact trend.

REMARKS: Sample 3300 was taken at the eastern, inclined shaft; Sample 3451 was taken at the western shaft, just west of the N-S vein outcrop

SAMPLE SITE: 3300, 3451

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: Dec. 14, 1988

Attachment:

PROPERTY NAME: Gold prospect 3
OTHER NAMES: Oreana #9 claim
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: skarn, vein
QUAD SHEET: Mount Siegel
OWNERSHIP:
SEC: 3 ,T: 12N ,R: 21E
North: 4312000 East: 0273910
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: East-trending adit, cuts
GEOLOGY: Working explore an irregular contact zone between diorite, to the north, and carbonate rocks, to the south. Irregular patches of bleached, marbleized limestone occur along the zone and interfinger with epidote-rich diorite. The limestone strikes N60E, dips 40 degrees NW, irregular bands of bleaching follow bedding planes. Sample 3452 was taken from an area of quartz veining which occurs along the walls of a N65E, vertical diorite dike that cuts limestone within the contact zone. The dike is about 4 feet wide, sugary, quartz veins in the dike walls are 1/8 inch to 1 inch thick, are vuggy with hematite coating the vugs. Clear zoisite crystals coat fracture surfaces in the dike contact zone.
REMARKS: Many small prospect pits and cuts in this area follow the general N-E trend of the contact zone. An old cabin near the adit portal may date from 1900-1920. A wooden post near the adit portal is labeled "loc. mon. Oreana #9"
SAMPLE SITE: 3452
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: Dec. 14, 1988
Attachment:

PROPERTY NAME: Gold prospect 4
OTHER NAMES:
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Mount Siegel
OWNERSHIP:

SEC: 2 ,T: 12N ,R: 21E
North: 4311630 East: 0275000

PRODUCTION: none

HISTORY: unknown

DEVELOPMENT: Old prospect cuts, two new bulldozer cuts

GEOLOGY: Old prospect cut exposes a brecciated, milky-white quartz vein cutting meta-argillite. The vein is about 1 foot thick, strikes N-S and is vertical. The vein is manganese- and iron-oxide stained. Other parallel and intersecting veins, from 1 to 4 inches thick, follow fractures and foliation planes in the argillite. Foliation in the argillite is N50W, dips 30 degrees NE. Area of veining is about 4 feet wide, is sheeted, veins are 2 to 3 inches apart within the zone. The veins are vuggy, have large (1/4 to 12 inch across) boxworks after pyrite.

REMARKS: Old prospect pits follow strike of vein; new bulldozer trench upslope cuts across strike of vein system, another trench to the west parallels the zone and extends downslope. The trenches are about 100 feet long and 12 feet wide, neither expose bedrock.

SAMPLE SITE: 3456

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: Dec. 16, 1988

Attachment:

PROPERTY NAME: Gold prospect 5
OTHER NAMES:
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: skarn, vein
QUAD SHEET: Mount Siegel
OWNERSHIP:
SEC: 2 ,T: 12N ,R: 21E
North: 4312270 East: 0274520
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Old timbered shaft, round timbers at collar
GEOLOGY: Contact zone of fine-grained diorite dike with limestone. The dike trends N30E, limestone in area has irregular patches of bleaching and marble, is laced with quartz veinlets and clots of crystalline calcite. Material on the shaft dump is white vein quartz with boxworks and clots of gossan along with massive jasper/gossan. Vein contains limonite and hematite filling in the boxworks.
REMARKS: Shaft is old, a +12-inch diameter pinon tree is growing from the dump. This prospect is along the general N-E trend of the diorite-limestone contact and the entire area may be underlain by diorite
SAMPLE SITE: 3457
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: Dec. 16, 1988
Attachment:

PROPERTY NAME: Monarch mine
OTHER NAMES:
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Mount Siegel
OWNERSHIP:
SEC: 10 ,T: 12N ,R: 21E
North: 4310940 East: 0273700
PRODUCTION: produced a small amount of gold in the early period of activity in the district and a small amount of gold and silver in 1958
HISTORY: unknown
DEVELOPMENT: Two, old, vertical shafts, cuts; a new open pit located immediately west of the old shafts has removed an incline shaft that formerly connected with the vertical shafts. The pit is about 100 feet by 50 feet by 50 feet deep with very steep walls and a steep ramp.
GEOLOGY: Brecciated, lenticular pods of milky white vein quartz cut brecciated meta-andesite. Veining appears to be random but the main vein exposed in the collar of the old shaft strikes N40W, near-vertical. Other veins exposed in the small pit strike N70W, N20E; they are mostly vertical but roll and flatten. Both wall rock and vein pods have been fractured. The vein material contains clots of chlorite and large limonite-filled boxworks.
REMARKS: Present mining activity consists of mining old dumps, talus and brecciated vein/wall rock material near the collar of the old shafts. The material is screened and it appears that only the fines are then passed through the small gold recovery plant (?)
SAMPLE SITE: 3453
REFERENCES: Moore, J.C., 1969, Geology and mineral deposits of Lyon, Douglas, and Ormsby Counties, Nevada: Nevada Bureau of Mines and Geology Bulletin 75
EXAMINER: J.V. Tingley
DATE VISITED: Dec. 14, 1988
Attachment:

PROPERTY NAME: Preachers mine
OTHER NAMES: Pine Nut Consolidated mine
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: vein
QUAD SHEET: Double Spring
OWNERSHIP:
SEC: 28 ,T: 12N ,R: 21E
North: 4305500 East: 0272350
PRODUCTION: unknown
HISTORY: Stamp mill was constructed on the property in 1905; was active at least until 1908.
DEVELOPMENT: One adit driven to intersect veins; prospect shaft or stope on outcrop of eastern vein. Adit portal is open.
GEOLOGY: West-bearing adit intersects N-S shear zone in meta-andesite. The shear zone is exposed in a caved stope or old prospect shaft up-slope to the west of the adit portal. The N-S shear zone is 2- to 5-feet wide where exposed in the walls of the prospect shaft. The shear zone is irregular in width, it is lenticular, iron-oxide stained, and laced with thin, vuggy, cockscomb quartz veins; quartz crystals in vugs are clear and drusy. Some pyrite is present; vein material and wall rock in the shear zone contain spots of limonite/hematite after pyrite. The meta-andesite wall rock is moderately silicified. Joint surfaces and fractures in the andesite are coated with epidote.
REMARKS: The camp area at the adit portal has been occupied within the last 5 to 10 years. No buildings remain but the area is strewn with junk carbodies, trash, and garbage. Only the foundations of the 1905-era stamp mill can be found along with the ends of a few of the massive stamp mill timbers. The adit portal has been cleared with a backhoe but no recent mining activity was apparent.
SAMPLE SITE: 3298
REFERENCES: Boileau, J. W., 1910, Engineers report of the Pine Nut consolidated: NBMG files
EXAMINER: J. V. Tingley
DATE VISITED: Dec. 14, 1988
Attachment:

PROPERTY NAME: Ruby Hill mine
OTHER NAMES: Copper Chief mine
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: vein
QUAD SHEET: Double Spring
OWNERSHIP:
SEC: 1 ,T: 11N ,R: 21E
North: 4302580 East: 0276190
PRODUCTION: unknown (small)
HISTORY: Discovered in 1908, 90 tons of ore treated in a leaching plant shortly thereafter, more ore was treated in 1928, production is unknown
DEVELOPMENT: Several adits, now caved, and at least one shaft, also caved and filled. The area has been prospected by numerous cuts and trenches, mostly during the 1960's and 1970's.
GEOLOGY: Oxidized copper ore occurs in fractured, altered andesite near a northward-striking fault. The host rock is a meta-andesite breccia and is sericitized and silicified near the fracture zone. Calcite and pyrite occur with the copper minerals; copper minerals include chrysacolla and copper pitch (melanconite). White vein quartz is present; manganese-, copper-, and iron-oxide minerals occur in the quartz. Ore minerals reported to be present in the mine workings are cuprite, chalcocite, and chalcopyrite.
REMARKS:
SAMPLE SITE: 3458, 3459, 3486
REFERENCES: Moore, 1969; Overton, 1947; Hill, 1915
EXAMINER: J.V. Tingley
DATE VISITED: Nov. 11, 1988
April 12, 1989
Attachment:

PROPERTY NAME: Section 1/2 prospect

OTHER NAMES:

MINING DISTRICT: Gardnerville

COUNTY: Douglas

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Double Spring

OWNERSHIP:

SEC: 1, 2 ,T: 11N ,R: 21E

North: 4303040 East: 275610

PRODUCTION:

HISTORY:

DEVELOPMENT: Caved adit

GEOLOGY: Shear zone in silicified meta-andesite; zone strikes N30E, dips 70 degrees NE, is about 2 feet wide at the portal. Zone contains pods of lenticular, vuggy, white, vein quartz with limonite coatings along fracture surfaces. Rock on the dump shows clots of copper-oxide-staining, vein fragments about 1 foot thick.

REMARKS: Adit portal is caved but adit may be open beyond first few feet of caved ground; from size of dump, may be at least 100 of workings

SAMPLE SITE: 3484

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 12, 1989

Attachment:

PROPERTY NAME: Section 2 prospect

OTHER NAMES:

MINING DISTRICT: Gardnerville

COUNTY: Douglas

MINERAL COMMODITY(IES): copper

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Double Spring

OWNERSHIP:

SEC: 1, 2 ,T: 11N ,R: 21E

North: 4302920 East: 275580

PRODUCTION:

HISTORY:

DEVELOPMENT: Several cuts and prospect pits on point of hill

GEOLOGY: Five-foot-wide shear zone in greenish meta-andesite, zone strikes NS and dips 70 degrees east. Cut along hill exposes at least 6 shear zones in about 400 feet; only one displays vein material. Vein here is about 4 inches wide and is iron-oxide stained has minor copper-oxide staining

REMARKS: Shear zone containing quartz vein may project to vein at sample site 3484

SAMPLE SITE: 3485

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: April 12, 1989

Attachment:

PROPERTY NAME: Suprise mine
OTHER NAMES:
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): copper, gold, silver
TYPE OF DEPOSIT: vein, replacement
QUAD SHEET: Double Spring
OWNERSHIP:
SEC: 26 ,T: 12N ,R: 21E
North: 4305870 East: 274860
PRODUCTION: unknown
HISTORY: Work dated from 1900-1920, no work in recent years
DEVELOPMENT: Two adits, one on east and one on west side of ridge, small cuts and pit on ridge top; west adit has large dump, adit may be several hundred feet in length
GEOLOGY: Carbonate rocks on nose of ridge north of mine strike N70W, dip 45 degrees SE, buff dolomitic rocks are overlain by gray, flaggy, fossiliferous limestone; rocks are recrystallized-marbelized, and iron-oxide stained. Gray limestone is laced with white calcite veinlets. The only visible mineralization on the two adit dumps consists of calcite and quartz veinlets with some iron-oxide staining. At the small prospect pit on the ridge between the two adits a N45W, 70 SW-dipping fracture zone in gray limestone has clots of limonite and malachite in a 1 inch thick vein of quartz and calcite. On the west slope, between the prospect and the larger adit, several irregular veins of calcite and aragonite crop out; the veins generally parallel the northwest trend of the ridge.
REMARKS: Western adit trends east, but turns to north about 20 feet inside portal. The eastern adit trends west but is caved at the portal.
SAMPLE SITE: 3482, 3483
REFERENCES:
EXAMINER: J. V. Tingley
DATE VISITED: April 12, 1989
Attachment:

PROPERTY NAME: Tungsten Hills mine

OTHER NAMES: Cherokee mine,

MINING DISTRICT: Gardnerville

COUNTY: Douglas

MINERAL COMMODITY(IES): tungsten

TYPE OF DEPOSIT: skarn

QUAD SHEET: Mount Siegel

OWNERSHIP:

SEC: 25 ,T: 12N ,R: 21E

North: 4306600 East: 0276260

PRODUCTION: 469 units WO3

HISTORY: The mine operated for a brief interval in 1943-44 by Carson Valley Tungsten Operations, Inc. and again in 1954-56 by several operators.

DEVELOPMENT: N80E-trending open pit, about 200 feet long by 40 feet wide by 30 feet deep at the west end. A caved, timbered shaft can be seen on the SE wall of the pit, dog-hole workings cut the NW wall

GEOLOGY: Rock exposed in the pit is highly fractured hornfels, granular marble, and weak skarn. Small pods of friable, red-brown garnet skarn occur in the pit walls. The rocks strike about N80W, dip 45 degrees NE, but fracturing makes measurements difficult. A N45E, 85 degree NW-dipping shear zone exposed on the west wall of the pit contains several branching, brecciated quartz veins; the veins are manganese- and iron-oxide stained and range from 1 to 6 inches thick.

REMARKS:

SAMPLE SITE: 3454

REFERENCES: Stager, H.K., and Tingley, J.V., 1988, Tungsten deposits of Nevada, Nevada Bureau of Mines and Geology Bulletin 105.

EXAMINER: J.V. Tingley

DATE VISITED: Dec. 16, 1988

Attachment:

PROPERTY NAME: Veta Grande mine
OTHER NAMES:
MINING DISTRICT: Gardnerville
COUNTY: Douglas
MINERAL COMMODITY(IES): gold, silver, silica
TYPE OF DEPOSIT: quartz-adularia vein (?)
QUAD SHEET: Double Spring
OWNERSHIP: High Technology Recovery System, Route 2, Box 14, Gardnerville, NV
89410
SEC: 10 ,T: 11N ,R: 21E
North: 4301536 East: 272568
PRODUCTION: Some production but the exact amount is unrecorded.
HISTORY: Earliest reference is from 1917; was active in the 1980's, but not
active at the time of the visit.
DEVELOPMENT: Inclined shaft, two tunnels, large open pit.
GEOLOGY: The host rocks are Jurassic-Triassic meta-andesite with interbeds of
of meta-sedimentary rocks. The metamorphic rocks have been intruded by felsite
dikes along NNW and EW-trending faults and have been flooded with silica. The
ore occurs in a very large quartz vein, in places up to 50 feet thick, that cuts
the metasedimentary sequence and crops out at the surface. The vein contains
sparse streaks of argentite and stephanite and minor amounts of gold.
REMARKS: Sample 4447 was taken from the open pit along the vein.
SAMPLE SITE: 4447
REFERENCES: Moore, J.G., 1969, Geology and Mineral Deposits of Lyon, Douglas and
Ormsby Counties, Nevada; NBMG Bull 75.
EXAMINER: Jack Quade; L.J. Garside
DATE VISITED: 7-13-89
Attachment:

PROPERTY NAME: Bataan mine
OTHER NAMES:
MINING DISTRICT: Garfield
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, tungsten
TYPE OF DEPOSIT: skarn
QUAD SHEET: Mable Mtn.
OWNERSHIP: Unknown
SEC: ,T: 7N ,R: 33E
North: 4254503 East: 389394
PRODUCTION: Some copper production in 1916.
HISTORY: Discovered prior to the WWI; worked between 1915-1916 for copper and for tungsten in 1943.
DEVELOPMENT: A series of N-S crosscut adits, numerous trenches crosscutting the contact zone, and some production pits for skarn along the contact zone.
GEOLOGY: The crosscuts explore a N80 degrees E 45-60 degrees N shear that is about 40 feet wide. Copper mineralization follows the dip and can be followed for over 300 feet along the strike. The shear is along a contact between limestone in the hanging wall and the sandstone in the footwall.
REMARKS: The old workings are in part being encroached upon by the New Deal and Gold Coin Claim block from the east. The Batan Mine workings are shown to be part of a patented block of acreage.
SAMPLE SITE: 3588
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Bataan prospects
OTHER NAMES:
MINING DISTRICT: Garfield
COUNTY: Mineral
MINERAL COMMODITY(IES): copper, tungsten
TYPE OF DEPOSIT: vein
QUAD SHEET: Mable Mtn.
OWNERSHIP: Unknown
SEC: ,T: 7N ,R: 34E
North: 4254144 East: 388852
PRODUCTION: None
HISTORY: Looks to relate to prospecting around the Batan Mine.
DEVELOPMENT: A small shaft.
GEOLOGY: Small shaft on a N85 degrees E, vertical-dipping vein about 4 feet wide in a shear and hosted in dark gray sandstone with interbedded limestone. At the surface, the vein is dark brown to black and forms a shallow gossan. The vein is strongly oxidized and in part consists of massive magnetite.
REMARKS:
SAMPLE SITE: 3589
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Garfield mine
OTHER NAMES:
MINING DISTRICT: Garfield
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, gold, lead
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Mable Mtn.
OWNERSHIP: Unknown
SEC: ,T: 7N ,R: 33E
North: 4256367 East: 385633
PRODUCTION: References vary; 550,000 from 1884 to 1933 (Couch and Carpenter 1943) More than 6,000,000 from 1880-1887 (Lincoln 1923).
HISTORY: Discovered in 1882 by Joshua Mass and Amos Everson. Production years between 1882 and 1933. Several miles of new road from the Garfield Flat were just completed at the time of this survey.
DEVELOPMENT: Over two miles of underground workings which are entered into via a 2500 foot adit from the west. The workings reached a maximum depth of 350 feet and are covered by thirteen claims some of which are patented.
GEOLOGY: According to Vanderburg, the underground workings exposed three major vein systems that were interconnected and ranged in size from 3 inches to 9 feet. The veins carried values in silver, gold and lead and were hosted in limestone and volcanics of Triassic Age. Samples were taken from major workings along the west and south side of Mable Mountain.
REMARKS: New activity at the Mable Mine has resulted in rebuilding the road from Garfield Flat past the Garfield Mine.
SAMPLE SITE: 3591, 3592, 3593
REFERENCES: Vanderburg, 1937, Reconnaissance of mining districts in Mineral County, Nevada; USBM I.C. 6941.
Lincoln, 1923, Mining district and mineral resources of Nevada, Newsletter Couch and Carpenter, 1943, Nevada metal and mineral production, NBMG Bull. 37.
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Gold Coin and New Deal claims

OTHER NAMES:

MINING DISTRICT: Garfield

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, silver, copper

TYPE OF DEPOSIT: Vein deposit

QUAD SHEET: Mina NW

OWNERSHIP: A. C. Perkins, P.O. Box 184, Mina, NV

SEC: 1 ,T: 6N ,R: 33E

North: 4251871 East: 391376

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Shaft adit and numerous prospects, work currently being conducted by the Perkins group.

GEOLOGY: Workings are associated with contact between silicified conglomerate of the Dunlap formation and Cretaceous granite. Vein material from dumps associated with the workings consist of copper-bearing quartz and quartz breccia.

REMARKS:

SAMPLE SITE: 3587

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-20-89

Attachment:

PROPERTY NAME: Lucky Strike mine
OTHER NAMES: New Deal claims
MINING DISTRICT: Garfield
COUNTY: Mineral
MINERAL COMMODITY(IES): copper
TYPE OF DEPOSIT: Vein
QUAD SHEET: Mable Mtn.
OWNERSHIP: F. W. Lewis (Patented Ground)
SEC: ,T: 7N ,R: 33E
North: 4253394 East: 389407
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Crosscut adit and trenches and small stopes above the adit.
GEOLOGY: A S45 degrees E-bearing crosscut adit in fine-grained limey shale cuts at about 100 feet a 4-ft. vein bearing N65 degrees E 75 degrees SE. The vein is in a shear along a contact between the shale and a breccia.
REMARKS: These workings are not shown on the Mable Mountain 7-1/2 and there is no reference to the mine in the literature?? The ground has been staked over by New Deal claims.
SAMPLE SITE: 3590
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Mable mine
OTHER NAMES:
MINING DISTRICT: Garfield
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, gold, lead, copper
TYPE OF DEPOSIT: Fissure veins
QUAD SHEET: Mable Mtn.
OWNERSHIP:
SEC: ,T: 7N ,R: 33E
North: 4257341 East: 384599
PRODUCTION: \$745,000 from 1922-1949
HISTORY: Discovery date unknown but had its peak production from 1922-1940. The mine was being worked at the time of this survey. A new road had been built from Garfield Flat and work to reopen the mine was in progress.
DEVELOPMENT: A new road, a 650 foot shaft with levels at 100 foot intervals, and a 130 foot winze from the 600 level. The property consists of two patented and four unpatented claims.
GEOLOGY: The workings follow a nearly-vertical, much-faulted, east-west vein system that ranges in thickness from a few inches to 3 feet. The veins were described as being oxidized to cavernous quartz with limonite and cerargyrite, native silver, jarosite, anglesite, chrysocolla and malachite. Host rocks consist of quartzite, chert and limestone of Triassic Age.
REMARKS: The property is about one mile northwest of the Garfield mine on the westside of Garfield Mountain. Access to the property passes the Garfield mine.
SAMPLE SITE: 3594
REFERENCES: Vanderburg, 1937, Reconnaissance of mining districts in Mineral County, Nevada; USBM I.C. 6941.
Lincoln, 1923, Mining district and mineral resources of Nevada, Newsletter Couch and Carpenter, 1943, Nevada metal and mineral production, NBMG Bull. 37.
EXAMINER: Jack Quade
DATE VISITED: 4-20-89
Attachment:

PROPERTY NAME: Mindora mine
OTHER NAMES:
MINING DISTRICT: Garfield
COUNTY: Mineral
MINERAL COMMODITY(IES): gold, silver, copper, lead
TYPE OF DEPOSIT: Quartz vein
QUAD SHEET: Mable Mtn.
OWNERSHIP:
SEC: ,T: 7N ,R: 33E
North: 4259316 East: 387109
PRODUCTION: Over 10,000 tons were mined but the dollar amount is not given.
HISTORY: Unknown
DEVELOPMENT: Three shafts approximately 14 adits and numerous prospects. The main shaft has three working levels. The mine has a total of about 2800 feet of underground workings. There is a good road to the camp south of Highway 395 and new road provide access to the workings and to new and recently drilled pads.
GEOLOGY: The major shaft was sunk on a N80 degrees E 70 degrees S shear between Luning Limestone and metavolcanics of Triassic Age. Besides the major east-west shear, there are numerous, lessor north-south structures. Many of the adits were driven south and from different elevations crosscutting at least three nearly parallel veins. Some of the veins can be traced on the surface for over 1000 feet. One of the veins has 800 feet of drifts along it from the second level of the main shaft, and 400 feet of stoping. The top-level vein is 4-10 feet in width, iron-stained quartz breccia. The other veins range from 4-6 and 3-10 feet in width but are not highly brecciated.
REMARKS: A sample was taken from a brecciated vein near the main shaft and from open stopes above a line of crosscutting adits to the east.
SAMPLE SITE: 3608, 3609
REFERENCES: Bishop, Jack C., 1968, Unpublished report on Mindora Mine
EXAMINER: Jack Quade
DATE VISITED: 5-1-89
Attachment:

PROPERTY NAME: Rock Cabin mine

OTHER NAMES:

MINING DISTRICT: Garfield

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, barite

TYPE OF DEPOSIT: Fissure veins

QUAD SHEET: Mable Mtn.

OWNERSHIP: Unknown

SEC: ,T: 6N ,R: 33E

North: 4249439 East: 383733

PRODUCTION: Unknown

HISTORY: Unknown

DEVELOPMENT: Old shafts, adits and prospects, and remnants of a stone cabin.

GEOLOGY: The upper workings are a series of shallow shafts and adits that explore a N85E, 45SE-dipping, two foot fissure vein with quartz stringers in a greenish-gray highly altered diorite in contact with light-tan, very thin and platy interbedded mudstone of the Dunlap Formation of Jurassic Age.

To the west of the rock cabin, numerous barite veins are interbedded with the sediments and barite float can be found along the hill sides. One of the prospects, adjacent to the cabin, has a 4-6 inch barite vein within it. Similar veins can be seen in road-cuts coming up the hill from the west.

REMARKS: A good road south from the Garfield Flat road provides easy access to the site.

SAMPLE SITE: 3595

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-21-89

Attachment:

PROPERTY NAME: Section 17 prospects

OTHER NAMES:

MINING DISTRICT: Garfield

COUNTY: Mineral

MINERAL COMMODITY(IES): gold, copper

TYPE OF DEPOSIT: Vein

QUAD SHEET: Mina NW

OWNERSHIP: Unknown

SEC: 17 ,T: 6N ,R: 34E

North: 4248109 East: 393756

PRODUCTION: Unknown

HISTORY: Fairly old workings but some recent geochemical exploration work.

DEVELOPMENT: Maybe forty prospects, 3 to 4 shallow shafts covering about one third of a mile.

GEOLOGY: Main workings follow a N80 degrees E, 20-30 degrees NE-dipping thrust contact about 5 ft. wide in lavender porphry lava and porphry breccia. Other than minor copper and quartz breccia vein material there is no visible mineralization that can be seen in the highly iron-stained and oxidized veins.

REMARKS: Sample 3584 was from along the exposed vein.

SAMPLE SITE: 3584

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 4-19-89

Attachment:

PROPERTY NAME: GB Fraction shaft
OTHER NAMES: Smith prospect (?)
MINING DISTRICT: Gold Basin
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Bell Mountain
OWNERSHIP: Kennecott Minerals (June 22, 1989)
SEC: 26 ,T: 16N ,R: 34E
North: 4341021 East: 403859
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Timbered, inclined shaft
GEOLOGY: Shaft sunk on N30E-striking, 55NW-dipping shear zone in kaolinized, rhyolite ash-flow tuff. Rock on shaft dump is bleached and kaolinized, moderately-welded ash-flow tuff with large pumice cavities; some quartz crystals occur in vugs and along fracture surfaces along with crusts and coatings of iron oxides.
REMARKS: Prior to the recent staking, no work appears to have been done on this property since the 1930's. The dump is fairly large and there are concrete foundations from old hoisting works at the shaft collar.
SAMPLE SITE: 4304
REFERENCES: Schrader, 1947, p. 123
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Gold Basin adit
OTHER NAMES: Branch prospect
MINING DISTRICT: Gold Basin
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Bell Mountain
OWNERSHIP:
SEC: 26 ,T: 16N ,R: 34E
North: 4340897 East: 403238
PRODUCTION: unknown
HISTORY: unknown
DEVELOPMENT: Long adit, locked at portal, partially caved at portal; ruins of old camp
GEOLOGY: Adit follows N20-30E-striking, near-vertical shear zone in silicified, rhyolite ash-flow tuff. Rubble zone along shear zone is loosely cemented with mixture of iron and manganese oxides and clay; footwall(left) dips SE about 85 degrees, hangingwall (right) dips NW 85-vertical, rubble zone is on both walls. Rock is silicified, some drusy quartz and iron-oxide staining on fracture surfaces. N15W, vertical, and N60E, about 75SE-dipping structures also exposed at adit portal. Both have iron-oxide flooding and coatings of drusy quartz.
REMARKS: The adit extends at least 200 feet beyond the locked grating at the portal. Remains of two or three 1920's-1930's buildings can be seen in the old camp.
SAMPLE SITE: 4305
REFERENCES: Schrader, 1947, p. 123
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Gold Bug mine
OTHER NAMES: Gold Basin mine
MINING DISTRICT: Gold Basin
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Bell Canyon
OWNERSHIP:
SEC: 35 ,T: 16N ,R: 34E
North: 4340445 East: 402749
PRODUCTION: small, but amount not known
HISTORY: see Schrader
DEVELOPMENT: Line of vertical shafts following structure, extensive dumps
GEOLOGY: Workings follow N60W strike; rhyolite tuffs north of shafts strike N50-60W, dip 50NE, are light gray with white pumice fragments, moderately kaolinized; rock on shaft dump is vivid red and red-orange. Some rock on dump is silicified, brecciated tuff laced with quartz veining; vugs in veins coated with quartz crystals; fine-grained gray mineral at base of quartz crystals may be silver sulfides (?) Brick-red rock on dump is moderately kaolinized andesite (?), may be a dike cutting tuff. Mineralized zone is not exposed at surface but it must be a breccia zone associated with contact.
REMARKS: Shaft on easternmost shaft and its workings follow 55-degree dip of rhyolite, andesite may have intruded along flow bedding in rhyolite
SAMPLE SITE: 4306
REFERENCES: Schrader, 1947, p. 123
EXAMINER: J.V. Tingley
DATE VISITED: July 19, 1989
Attachment:

PROPERTY NAME: Shamrock mine
OTHER NAMES: Cye Cox mine, Hercules prospect
MINING DISTRICT: Gold Basin
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Fault zone
QUAD SHEET: Bell Mountain
OWNERSHIP:

SEC: 19 ,T: 16N ,R: 35E
North: 4342889 East: 405796
PRODUCTION: Small, but not recorded
HISTORY: unknown

DEVELOPMENT: Timbered, vertical shaft, 4x6x about 50 feet deep, surface cuts, stopes and winzes near shaft, adit driven from east slope of hill--probably does not intersect shaft workings

GEOLOGY: Surface dog-holes northeast of shaft expose bleached, kaolinized rhyolite along N30E-striking, 45SE-dipping structures; N80W, 45SW-dipping fault zone cuts silicified rhyolite in pit southwest of shaft, a second fault, N15W, dipping 45SW, is exposed in the pit, rock along both structures is kaolinized. Wedge of rock between the faults is brecciated and silicified, some dendritic manganese oxide staining on fracture surfaces. Workings appear to mainly follow the N15W structure. A N60W, 55SW-dipping structure is exposed in pit south of other structures. Generally, there seems to be a wide zone of alteration associated with NW-trending faults, faults range between N60-80W with some N15W cross-structures, all dip 45-55SW. Rock along structures is kaolinized, silicified, and brecciated. Alteration zone is about 500 feet wide and is exposed for about 1000 feet along strike.

REMARKS: Two old cabins on the site, lots of old junk and equipment left from very-small-scale mining and screening operation. Appears to have been occupied and mined by Cye Cox for a long period of time.

SAMPLE SITE: 4303

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: July 19, 1989

Attachment:

PROPERTY NAME: Bimetal group

OTHER NAMES:

MINING DISTRICT: Holy Cross

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: vein

QUAD SHEET: Allen Springs

OWNERSHIP: Unknown, but within the Walker Lake Paiute Indian Reservation

SEC: 25 ,T: 15N ,R: 30E

North: 4333400 East: 363150

PRODUCTION: Several tons of ore averaging \$40 per ton

HISTORY: Discovered in 1932 by A. L. Robinson of Fallon from beneath a mine monument near the upper inclines a claim notice in 1936 identified the owners as Robinson and Beegaly; Bimetal #1.

DEVELOPMENT: The eastside workings consist of two lower inclines and two upper inclines (one with level workings and some trenching). None of the inclines exceeded 100 feet in depth.

GEOLOGY: The workings follow quartz veins bearing near N70 degrees W, 40-50 degrees NE that bisect a north-trending, elliptically shaped granite monolith which rises several hundred feet above the surrounding area. The granite mountain is about a half mile long and a quarter mile wide. The vein system is tracable along its strike for over a 1000 feet. The vein material consists of translucent, porcelainous quartz. Adjacent wall rock has been kaolinized and sericitized. Willden and Speed (1947, p. 75) described the quartz veins as generally parallel to a set of aplite dikes which cut the granodiorite and suggested that some of the veins may be quartz-rich pegmatites rather than hydrothermal in origin. Their samples from the two northern (lower east side) inclines ran 0.44 to 0.581 ppm gold and 10 to 30 ppm silver. A fifth sample ran 120 ppm gold and 20 ppm silver. Our sample 3954, from the same workings, ran 15 ppm silver and 1.6 ppm gold with little or no base metals above detectable limits. The vein exposed in these workings is about 6-12 inches in width. They also sampled a 1- to 3-inch thick vein exposed in the upper two inclines. Three separate samples taken here ran .96, 1.3 and 2.15 ppm gold and 15, 15 and 10 ppm silver. Our sample 3955, taken from the same vein system inside the biggest incline, ran 1000 ppm silver, (con't attachment)

REMARKS:

SAMPLE SITE: 3954, 3955, 3956

REFERENCES:

EXAMINER: Jack Quade/Joe Tingley

DATE VISITED: 10-9-86

Attachment: 700 ppm lead, 500 ppm antimony, 1200 ppm arsenic, 500 ppm zinc, 150 ppm copper, 2.2 ppm mercury and 7.1 ppm gold. Willden and Speed did not report sampling the adit on the lower west side. Our sample 3956 was taken from dump and chipped from the vein material exposed inside the 100 foot adit in the west side. This sample contained 70 ppm silver, 85 ppm gold and like samples from the east side of the hill, contained almost no base metals. Some minor trenching followed the direction of the vein into the alluvium on the west side but there was no attempt to follow the vein on the east side.

PROPERTY NAME: Black Butte mine

OTHER NAMES:

MINING DISTRICT: Holy Cross

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Terrill Mountains

OWNERSHIP:

SEC: ,T: ,R:

North: 4327789 East: 351964

PRODUCTION:

HISTORY:

DEVELOPMENT: Inclined shaft on the nose of a ridge; adits to NW and SE, considerable stoping and related underground workings

GEOLOGY: Shaft was sunk in N10W-striking, 50-degree SW-dipping shear zone; structure cuts a greenish, porphyritic dacite but an altered rhyolite tuff crops out to the west, up-slope from the shaft. Workings appear to follow the west margin of the dacite--it could be an intrusive plug cutting older tuffs. Rock along the shear zone is kaolinized, brecciated, and silicified; veinlets of quartz lace the rock and breccia fragments are silicified, iron-oxide staining coats fracture structures. Most all rock on the shaft dump is completely silicified and is laced with quartz veinlets with minor specks of free gold in sulfide casts. The shear zone is about 4- to 6- feet wide at the shaft.

REMARKS: The workings of this mine are extensive, track remains in the adits; access, however, is difficult

SAMPLE SITE: 4345

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 26, 1989

Attachment:

PROPERTY NAME: CH claim #33
OTHER NAMES: sample site 3964
MINING DISTRICT: Holy Cross
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver, mercury
TYPE OF DEPOSIT: Vein
QUAD SHEET: Allen Springs
OWNERSHIP: Coeur Exploration, Box AB, Sparks, NV 89432
SEC: 14 ,T: 15N ,R: 30E
North: 433150 East: 362300
PRODUCTION: Unknown
HISTORY: Exploration in the era during the 1930's
DEVELOPMENT: Small incline and prospect pits
GEOLOGY: A small incline and prospects follow a vein near the top of Hill 4938. The workings and the vein bear N35 degrees W, 35 degrees SW and are hosted in rhyolite that may be intrusive. Most of the vein consists of hydrothermal breccia that is a highly-silicified, flint-hard mass containing gray, fine-grained pyrite in its matrix. Sample 3964 assayed 370 ppm arsenic, 300 ppm antimony, above 10 ppm mercury, but contained no detectable gold or silver.
REMARKS:
SAMPLE SITE: 3964
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-10-86
Attachment:

PROPERTY NAME: CH claim #35
OTHER NAMES: Sample site 3965
MINING DISTRICT: Holy Cross
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver, mercury
TYPE OF DEPOSIT: Hydrothermal breccia
QUAD SHEET: Allen Springs
OWNERSHIP: Coeur Exploration, Box AB, Sparks, NV 89432
SEC: 14 ,T: 15N ,R: 30E
North: 4365750 East: 362400
PRODUCTION: Unknown
HISTORY: Exploration in the area during the 1930's
DEVELOPMENT: Small prospect-pit
GEOLOGY: The small prospect explores a two and a half foot-wide, highly silicified flint-hard, hydrothermal breccia hosted in a bleached white, hornblende diorite that is thought to be Mesozoic in age. The visible minerals include fine-grained pyrite in the matrix of the breccia, galena as small clots within the matrix, and coatings of barite crystals filling fractures. Sample 3965 assayed 500 ppm arsenic, abovr 5000 ppm barite, 200 ppm zinc, 500 ppm lead, 200 ppm antimony, 6.1 ppm mercury, 7 ppm silver and .20 ppm gold.
REMARKS:
SAMPLE SITE: 3965
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-10-86
Attachment:

PROPERTY NAME: CH claim #42
OTHER NAMES: Wall Street Claims, Dan Claims
MINING DISTRICT: Holy Cross
COUNTY: Churchill
MINERAL COMMODITY(IES): gold, silver,
TYPE OF DEPOSIT: Quartz veins
QUAD SHEET: Allen Springs
OWNERSHIP: Coeur Exploration, Box AB, Sparks, NV 89432
SEC: 13 ,T: 15N ,R: 30E
North: 4335350 East: 362000
PRODUCTION: Unknown
HISTORY: Unknown, but the area was staked and actively explored in the 1930's
DEVELOPMENT: A shaft, trenches and prospects
GEOLOGY: Locally the area is underlain by granite and diorite in contact with rhyolites to the east and dacites and rhyolites to the west. The workings explore a white bull-quartz vein with slickensides bearing N45 degrees E, 50 degrees SE that contains minor visible sulfides. The vein is about 12" wide with minor sericite alteration and is tracable along its strike for about 300 feet. Sample 3958, collected from the vein, contained 700 ppm zinc, 70 ppm cadmium, 70 ppm lead, but no silver or gold above detection limits. Sample 3959 was taken from a hill north of this site and consisted of silicified breccia in a matrix of alunite. The sample contained 2000 ppm arsenic, 540 ppm antimony, 50 ppm lead, greater than 10 ppm mercury, but no detectable gold or silver. The sample site is close to the top of the hill on the south side and near the common boundaries of Ch claim 42 and 43.
The parallel veins crop out in the saddle southeast of the shaft; each vein is 2- to 3-feet thick and they are separated by about 20 feet of diorite.
REMARKS:
SAMPLE SITE: 3958, 3959
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-10-86
Attachment:

PROPERTY NAME: CH claims #9 and #11

OTHER NAMES:

MINING DISTRICT: Holy Cross

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, gold

TYPE OF DEPOSIT: Vein in a shear

QUAD SHEET: Allen Springs

OWNERSHIP: Coeur Exploration, Box AB, Sparks, NV 89432

SEC: 11 ,T: 15N ,R: 30E

North: 4336990 East: 362700

PRODUCTION: Unknown

HISTORY: Exploration in the area began in the 1930's

DEVELOPMENT: Shafts and adit long with prospects

GEOLOGY: An adit on the northside of Hill 4846 was driven on a S75 degrees W bearing. The workings follow a shear in highly altered and bleached, partly welded tuff. Silicified manganese-stained material with sericite alteration was taken from within the shear and the dump (sample 3963). Assays of the sample ran 410 ppm antimony, 60 ppm arsenic, .20 ppm mercury, without detectable gold or silver. Sample 3963 was taken from the dump associated with the shaft on the east side of the hill. The shaft was sunk on a highly oxidized tuff that had some gossan-like mineralization with alunite, gypsum and sericitic alteration. This sample contained 100 ppm arsenic, 500 ppm zinc, 30 ppm chromium, 50 ppm cobalt and .60 ppm mercury, but without detectable gold and silver.

REMARKS:

SAMPLE SITE: 3962, 3963

REFERENCES:

EXAMINER: Jack Quade/Joe Tingley

DATE VISITED: 10-10-86

Attachment:

PROPERTY NAME: Cinnabar Hill group
OTHER NAMES: CH claim #45 and #46
MINING DISTRICT: Holy Cross
COUNTY: Churchill
MINERAL COMMODITY(IES): mercury
TYPE OF DEPOSIT: quartz-alunite vein
QUAD SHEET: Allen Springs
OWNERSHIP: Coeur Exploration, Box AB, Sparks, NV 89432
SEC: 13 ,T: 15N ,R: 30E
North: 4335650 East: 363400
PRODUCTION: A small amount of quicksilver produced in 1940
HISTORY: The deposit was discovered by retracing the source of mercury float by A. L. Robinson in 1938
DEVELOPMENT: Several shafts, one about 75-feet deep, a 60-foot adit, and a small amount of drifting and crosscutting, totaling about 175 feet.
GEOLOGY: The workings explore shear zones in highly altered and oxidized rhyolite that have apparently acted as conduits for ascending ore solutions high in mercury and other base metals. The main shaft is developed along a N85 degrees W, 75 degrees N shear zone that contains a mixture of chalcedonic quartz, quartz breccia, and hematite-rich gouge with minor jarosite. Much of the ore is completely stained by oxides of iron and manganese and contain little other visible mineralization. Sample 3860, taken selectively from the dump, contained 2000 ppm arsenic, 70 ppm boron, 350 ppm antimony and above 10 ppm mercury, (10 ppm is the upper detection limit of the assay method employed). Speed and Willden (1974) reported 140 ppm mercury from a sample taken at this locality. They also reported 100 ppm mercury from a sample taken from one of the other prospects on the property. A second shallow shaft explores a prominent outcrop that forms a knob about 100 feet above and to the north of the lower workings. The outcrop is cut by a N65 degree E shear that exposes numerous slickensided surfaces. Sample 3961, taken from materials within the shear, assayed 2000 ppm arsenic, 50 ppm boron, and 340 ppm antimony. None of our samples or Willden and Speed's samples contained detectable gold or silver.
REMARKS:
SAMPLE SITE: 3960, 3961
REFERENCES:
EXAMINER: Jack Quade/Joe Tingley
DATE VISITED: 10-10-86
Attachment:

PROPERTY NAME: Gee shaft

OTHER NAMES: Pyramid mine

MINING DISTRICT: Holy Cross

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver, lead, zinc

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Terrill Mountains

OWNERSHIP:

SEC: ,T: ,R:

North: 4328022 East: 351279

PRODUCTION:

HISTORY:

DEVELOPMENT: Inclined shaft, wooden headframe, tugger hoist in place, ore bin down-slope; shaft is 200 feet deep with about 200 feet of underground workings on two primary levels

GEOLOGY: Mine dump is composed of gray, lithic-rich, ash-flow tuff; rock is only moderately welded, it contains disseminated pyrite and is kaolinized, brecciated, and silicified. Quartz veinlets containing sphalerite, galena, and pyrite lace the rock. The silicified zone forms a ridge to the south of the shaft, structure at the shaft strikes N15E, dips 60-degrees SE, and is about 8-feet wide. Vein material seen in the shaft dump is up to 3-inches thick and contains bands and clots of crystalline galena, pale-amber sphalerite, and pyrite.

REMARKS: This mine appears to be the site of the most recent work in the district, but there has been no activity this season.

SAMPLE SITE: 4346

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 26, 1989

Attachment:

PROPERTY NAME: Sand Mountain claim #1
OTHER NAMES: sample site 3957
MINING DISTRICT: Holy Cross
COUNTY: Churchill
MINERAL COMMODITY(IES): silver, gold
TYPE OF DEPOSIT: Contact
QUAD SHEET: Allen Springs
OWNERSHIP: Ted Lemons, 2930 Markridge Dr., Reno, NV 89509
SEC: 24 ,T: 15N ,R: 30E
North: 4333700 East: 362000
PRODUCTION: Unknown
HISTORY: Unknown but not recently
DEVELOPMENT: Small prospect
GEOLOGY: The workings consisted of shallow inclines along a N70 degrees W, 50 degrees NE contact zone between Tertiary sediments and granite. The 3-4 foot wide zone was filled with hematite and minor quartz stringers. Sample 3957 contained 1.4 ppm gold, but only 3 ppm silver and only trace amounts of base metals.
REMARKS:
SAMPLE SITE: 3957
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-10-86
Attachment:

PROPERTY NAME: Water Shaft mine

OTHER NAMES:

MINING DISTRICT: Holy Cross

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone

QUAD SHEET: Terrill Mountains

OWNERSHIP:

SEC: ,T: ,R:

North: 4327857 East: 35342

PRODUCTION: unknown

HISTORY: unknown

DEVELOPMENT: Vertical shaft, some drifting and cuts; in old camp area, most of ground disturbed

GEOLOGY: N80E, near-vertical shear zone in kaolinized dacite; N50E-striking cross-structure, breccia along zone cemented with hematite, limonite, manganese-oxides; dense gossan material, zone is about 4-feet wide as exposed in the shaft; zone of branching, interconnecting shear zones.

REMARKS: This is probably the Water Shaft mine of Schrader, 1947.

SAMPLE SITE: 4344

REFERENCES: Schrader, 1947, USGS Open-File report

EXAMINER: J. V. Tingley

DATE VISITED: July 26, 1989

Attachment:

PROPERTY NAME: Hardrock Mine

OTHER NAMES:

MINING DISTRICT: Hunttoon Valley area

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, gold(?)

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: W. of Hunttoon

Spring

OWNERSHIP:

SEC: 14,23 ,T: 3N ,R: 30E

North: 4219000 East: 0359350

PRODUCTION: Small

HISTORY: Unknown, fragments of purple glass in the remains of the old mine camp indicate that early work here may have taken place before 1900.

DEVELOPMENT: Two long, N-S trending adits intersect generally E-W mine workings which follow a vein system. An adit follows the southern-most vein system and it is exposed in the canyon east of the main portals; stopes along the northern, larger vein system are also exposed above the road up the canyon.

GEOLOGY: Workings expose two separate veins within a wide shear zone in metavolcanic rocks of the Excelsior Formation. On the west end of the zone, exposed in cuts above the two adits, the veins strike N20-30E and dip 45 degrees to the SE. On the east, exposed in the canyon east of the adits, the northern and larger vein strikes N70E and the southern vein strikes N50E; dips are 45-50 degrees SE. The veins are 2- to 3-feet thick and are composed of angular quartz vein rubble recemented with quartz, they roll along strike and dip and appear to generally parallel the attitude of the enclosing metavolcanic rocks. The wall rocks are brecciated and silicified and are laced with quartz veinlets which parallel and crosscut the trend of the major veins. The vein material is iron-oxide stained and contains clots and streaks of sphalerite, galena, tetrahedrite, pyrite, and copper oxide minerals.

A large plug-like mass of lithic-rich rhyolite tuff cuts the metasedimentary/metavolcanic section about 2000 feet southwest of the mine area.

REMARKS: This property has had underground maintenance work done within the past 10 years; most recently, geochemical samples have been taken across the major vein outcrops. The sampling appears to have been done this summer (1988)

SAMPLE SITE: 3293

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: 9/22/88

Attachment:

PROPERTY NAME: Hontone Mine
OTHER NAMES:
MINING DISTRICT: Hunttoon Valley area
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, gold(?)
TYPE OF DEPOSIT: vein, shear zone
QUAD SHEET: Hunttoon Valley
OWNERSHIP:
SEC: Usurv ,T: 4N ,R: 31E
North: 4225650 East: 0363450
PRODUCTION: Small
HISTORY: unknown
DEVELOPMENT: Extensive bulldozer roads and trenches, prospect pits; evidence of some underground workings, now obliterated by newer trenches and recent flash-flooding.
GEOLOGY: Mine workings are within an outcrop of metavolcanic and metasedimentary rocks of the Excelsior Formation that lies along the south-facing range front. The rocks strike N75E and dip 50 degrees NW. Prospecting is within a N20E, 40 degrees SE-dipping shear zone that cuts the metavolcanic rocks. An E-W striking, near vertical fracture set, some fractures filled with quartz, cuts the section also. The shear zone is several hundred feet wide in outcrop, and is cut by aplite dikes and pods. Iron-oxide stained zones are, in some cases, lenticular along bedding. Silicated limestone present has hematite-after-pyrite casts along bedding. Clots and stringers of sulfides (galena, tetrahedrite, pyrite, possibly stibnite, occur in the lenticular zones along bedding.
REMARKS: Oldest working appear to date from the 1920's, dozer work is 10-15 years old. The property has been sampled within the past few months.
SAMPLE SITE: 3292
REFERENCES:
EXAMINER: J.V. Tingley
DATE VISITED: 9/21/88
Attachment:

PROPERTY NAME: Moon Glow Prospect

OTHER NAMES: Trinity #1

MINING DISTRICT: Huntton Valley area

COUNTY: Mineral

MINERAL COMMODITY(IES): silver, gold(?)

TYPE OF DEPOSIT: vein, shear zone

QUAD SHEET: Little Huntton V.

OWNERSHIP:

SEC: 36 ,T: 4N ,R: 31E

North: 4224260 East: 0370350

PRODUCTION: none

HISTORY: unknown

DEVELOPMENT: Two shallow prospect pits on SW vein; a shallow adit and winze on the NE vein; trenching extends across the hill from the older work

GEOLOGY: Two quartz veins cut quartzite, chert, and possibly thin carbonate beds of the Excelsior Formation. The vein exposed in the NE adit strikes N50W, dips 60 degrees SW; it is about 3 feet thick and cuts quartzite. The vein is rubblely, composed of sugary quartz with minor iron- and copper- oxide staining, Small clots of tetrahedrite are also present. The SW vein is not well exposed in its prospect pits but material on the dumps indicate that it is a strong vein. To the southwest of the pits, the vein has been exposed as a 15-foot wide shear zone in quartzite; this zone may represent a limestone horizon which has been silicified and banded with vein quartz along its contacts with the quartzite. Copper-oxide minerals and a steely-gray sulfide mineral occur in spots and lenses along bands parallel to the vein walls. Bedding in the wall rocks is not clear but is may be N-S with a 10 degree south dip--this trend can be seen in a nearby quartzite-chert outcrop.

REMARKS: This property was staked by Roy Spriggs, Spectrum Exploration, on July 6, 1988; the Spriggs notice is in a container with a 1981 notice stating the claim is a relocation of an older claim and is named the Trinity #1

SAMPLE SITE: 3294

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: 9/22/88

Attachment:

PROPERTY NAME: Bill Towe prospect

OTHER NAMES:

MINING DISTRICT: I.X.L.

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: shear zone

QUAD SHEET: IXL Canyon

OWNERSHIP:

SEC: 6 ,T: 21N ,R: 34E

North: 4396392 East: 396845

PRODUCTION: none

HISTORY: none

DEVELOPMENT: Adits, now caved, trenching

GEOLOGY: Massive white quartz vein, striking N65W and dipping 60-degrees NE, cuts gray, shaly limestone and shale. Rock is iron- and copper-oxide-stained on fracture surfaces. Vein is pod like and follows shear zone. Wall rock in hanging wall is an andalusite schist. Granite contact is to the northwest, some of the northwestern workings are in granite.

REMARKS:

SAMPLE SITE: 4351

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 31, 1989

Attachment:

PROPERTY NAME: Cox Canyon prospect

OTHER NAMES:

MINING DISTRICT: I.X.L.

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: vein

QUAD SHEET: Cox Canyon

OWNERSHIP:

SEC: ,T: ,R:

North: 4393948 East: 391290

PRODUCTION: unknown

HISTORY: unknown

DEVELOPMENT: 25-foot-deep inclined shaft, smaller shaft to the south

GEOLOGY: A N35W-striking, 70-degree SW-dipping white quartz vein is exposed on north rib of the shaft; vein is 6-inches to 1-foot thick, has parallel veinlets up to 2-inches thick in the footwall which merge into the main vein; vein follows a shear zone in phyllite. Bedding in phyllite strikes N15E, dips 45-degrees NW. The veins are brecciated in spots and have areas of narrow limonitic gossan.

REMARKS:

SAMPLE SITE: 4337

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 25, 1989

Attachment:

PROPERTY NAME: Revenue mine
OTHER NAMES: Cirac mine
MINING DISTRICT: I.X.L.
COUNTY: Churchill
MINERAL COMMODITY(IES): fluorspar
TYPE OF DEPOSIT: replacement
QUAD SHEET: Cox Canyon
OWNERSHIP:
SEC: 9 ,T: 21N ,R: 33E
North: 4394230 East: 390184
PRODUCTION: Est. 1900 tons, 1952-57 (Papke, 1979)
HISTORY: Located in April 1938 by C.P. and L. Cirac
DEVELOPMENT: Extensive cuts and trenches in upper Cox Canyon and on the ridge north of the canyon
GEOLOGY: Cut at sample site exposes contorted bedding in limy shale and phyllite, rock strikes N50E to N50W, dips steeply, and is sheared along bedding planes. Irregular quartz veins up to 6-inches thick occur along bedding. Gossan occurs as fracture fillings and clots in the vein material and along bedding; horizontal structure, possibly a thrust fault, cuts bedding at the south end of the trench. In upper reaches of Cox Canyon, massive white marble crops out along a ridge on the north side of the canyon. The marble lense occurs in gray limestone, is 5- to 10-feet thick, strikes N50E, dips about 80-degrees NW; the zone branches and splits along strike.
REMARKS: No recognizable fluorite was noted, possible some of the white material at sample site is fluorite; main Revenue mine was not visited, description is of prospect cuts in lower Cox Canyon.
SAMPLE SITE: 4338
REFERENCES: Papke, 1979
EXAMINER: J. V. Tingley
DATE VISITED: July 25, 1989
Attachment:

PROPERTY NAME: Section 20 shaft

OTHER NAMES:

MINING DISTRICT: I.X.L.

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: gossan, skarn

QUAD SHEET: IXL Canyon

OWNERSHIP:

SEC: 20 ,T: 21N ,R: 34E

North: 4391686 East: 398171

PRODUCTION:

HISTORY:

DEVELOPMENT: Vertical, timbered shaft, est. 30- to 40-feet deep, trench 20-feet north of the shaft, pit to south.

GEOLOGY: Massive jasperoid-gossan is exposed in the pit; ledge of gossan exposed in north trench has NS trend, dips 80-85-degrees to E; gossan occurs in silicated limestone and weak skarn; skarn contains sugary epidote with magnetite crystals, some dendritic manganese-oxide staining. Jarosite crystals coat vugs and surfaces in the gossan.

REMARKS: Too much of the area around the shaft, trench, and pit is covered with alluvium to clearly see geologic relationships

SAMPLE SITE: 4352

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 31, 1989

Attachment:

PROPERTY NAME: Silver Hill Claims

OTHER NAMES:

MINING DISTRICT: I.X.L.

COUNTY: Churchill

MINERAL COMMODITY(IES): gold, silver

TYPE OF DEPOSIT: gossan, shear zone

QUAD SHEET: IXL Canyon

OWNERSHIP:

SEC: ,T: ,R:

North: 4391807 East: 397694

PRODUCTION: none

HISTORY: unknown

DEVELOPMENT: prospect pit

GEOLOGY: Lense of siliceous gossan occurs along N55E-striking, near-vertical shear zone in granite; intrusive rock is finer grained to north of the prospect and is more massive to the south. Some quartz-flooded vein material on the dump of the prospect contains disseminated pyrite. Gossan cavities are coated with pulverent yellow-green oxide minerals, possibly lead or antimony oxides. The granite is jointed and has epidote films along joint surfaces, rock is chloritized.

REMARKS:

SAMPLE SITE: 4353

REFERENCES:

EXAMINER: J. V. Tingley

DATE VISITED: July 31, 1989

Attachment:

PROPERTY NAME: Boss Jumbo mine
OTHER NAMES:
MINING DISTRICT: Jumbo
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Quartz vein and breccia
QUAD SHEET: Virginia City
OWNERSHIP: Unknown
SEC: 34 ,T: 17N ,R: 20E
North: 4352254 East: 265327
PRODUCTION: Unknown
HISTORY: Area was being mined in 1908
DEVELOPMENT: A 40-foot shaft and prospects.
GEOLOGY: A N75 degree W-striking, vertical vein with some quartz and quartz breccia are hosted in an iron-stained and partially silicified volcanic breccia of the Alta Formation. Minor fine-grained pyrite fills the matrix of some of the vein material. The shaft was sunk directly on the 4-foot vein.
REMARKS: The camp does not appear to have had any recent exploration as all of the workings are old, and caved.
SAMPLE SITE: 3658
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: Empire mine
OTHER NAMES:
MINING DISTRICT: Jumbo
COUNTY: Washoe
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Veins
QUAD SHEET: Virginia City
OWNERSHIP: Unknown
SEC: 35 ,T: 17N ,R: 20E
North: 4352809 East: 266432
PRODUCTION: Unknown
HISTORY: Area being worked in 1908
DEVELOPMENT: Several shafts and numerous prospects.
GEOLOGY: A three foot wide shear adjacent to a shaft contains quartz stringers and silicified gouge. The structure is hosted in meta-volcanics near a contact with granite. There is some argillic and propylitic alteration but no visible mineralization other than fine-grained pyrite in the quartz.
REMARKS: Very old workings.
SAMPLE SITE: 3657
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: Pandora mine
OTHER NAMES:
MINING DISTRICT: Jumbo
COUNTY: Storey
MINERAL COMMODITY(IES): gold, silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: Virginia City
OWNERSHIP: Unknown
SEC: ,T: ,R:
North: 4352498 East: 265829
PRODUCTION: \$35,000 reported in 1908.
HISTORY: First recorded activity was in 1908.
DEVELOPMENT: Seven shafts, most of which are shallow, and trenches and prospects.
GEOLOGY: The workings follow intermittent veinlets or small isolated shoots possibly related to a larger N50-60 degree E vein system in propylitized, purple andesite and tuff. The mineralization occurs as free gold and silver with quartz, calcite, zeolites, and pyrite. The sample was taken from a vein adjacent to the shaft.
REMARKS: The prospects and trenching between the shafts appear to follow offshoots to the main vein. The camp is about 3 miles west of Virginia City along a road that follows the old Flume.
SAMPLE SITE: 3656
REFERENCES: Bonham, H.E., Geology and Mineral Deposits of Washoe and Storey County, Nevada BNMG Bull 70, 1969.
EXAMINER: Jack Quade
DATE VISITED: 5-11-89
Attachment:

PROPERTY NAME: King mine
OTHER NAMES: Donnelly property, Silver Bullion claims, King claims
MINING DISTRICT: King
COUNTY: Mineral
MINERAL COMMODITY(IES): silver, gold, lead
TYPE OF DEPOSIT: shear zone
QUAD SHEET: Slate Mountain
OWNERSHIP:
SEC: 4, 9 ,T: 13N ,R: 34E
North: 4318748 East: 400152
PRODUCTION: small
HISTORY: Discovered in September, 1926; early development and first production by Desert Queen Mining Co. Development by B. H. Donnelly in the 1930's;
DEVELOPMENT: Several shafts, adits, and cuts; recent work (1988) consisted of numerous drill roads and drill holes. The Rhinelander tunnel, 700 feet long, was driven in 1930's on the Silver Bullion #1 claim.
GEOLOGY: At south end of the mine area, fractured, iron-oxide-stained, silica-flooded rhyolitic rock appears to have intruded a dense, greenish metal-volcanic rock (andesite). The silica-flooded rock is fractured along a N15-50W, near-vertical shear zone, lighter rock may be a dike. A cross-cutting N80E zone has alunite bands along it, gypsum coats fractures in outcrop, jarosite coatings, lots of sulfide casts in oxidized rock. Outcrop of the siliceous rock follows a N15-30W trend but there are irregular, small plugs cropping out along it. At its south end, the zone is about 200 feet wide. At sample site 4052, the silicified rock along the zone contains disseminated sulfides in radiating crystal groups, possibly jamesonite, lots of jarosite along with sericite and chlorite in rock; clots and films of manganese- and iron-oxides coat fractures; lenses of white quartz follow the zone but sulfides are associated with clear, sugary quartz. The older (intruded?) rock is a greenish, silicated andesite containing chlorite and epidote. The contact relationships of the two rocks are not clear but most of range to the east is composed of the greenish andesite.
REMARKS: Property was staked as the King claims in 1988, drill program was apparently carried out on the property last season
SAMPLE SITE: 4051, 4052, 4053, 4054
REFERENCES: Schrader, 1947; Wren, 1963, NBMG files.
EXAMINER: J. V. Tingley
DATE VISITED: June 1, 1989
Attachment:

PROPERTY NAME: Eleven Mile adit
OTHER NAMES: Short Day claim #8
MINING DISTRICT: La Plata
COUNTY: Churchill
MINERAL COMMODITY(IES): silver
TYPE OF DEPOSIT: Vein
QUAD SHEET: La Plata Canyon
OWNERSHIP: Richard Fisk, La Plata Gold Mines
SEC: 10 ,T: 18N ,R: 33E
North: 4366120 East: 390600
PRODUCTION: Unknown
HISTORY: Unknown
DEVELOPMENT: Adit on south side of canyon, caved portal
GEOLOGY: Adit was driven in felsite near a granite contact, granite crops out a few hundred feet to the south. The adit bears N 55 degrees E but is caved at the portal. Sample 3931 collected from the dump contained copper oxides and sulfides, possibly galena. Assay ran 10 ppm silver, 200 ppm copper, 100 ppm lead.
REMARKS:
SAMPLE SITE: 3931
REFERENCES:
EXAMINER: Jack Quade
DATE VISITED: 10-8-86
Attachment:

PROPERTY NAME: La Plata fluorite prospect

OTHER NAMES:

MINING DISTRICT: La Plata

COUNTY: Churchill

MINERAL COMMODITY(IES): fluorspar

TYPE OF DEPOSIT: Vein, shear zone

QUAD SHEET: La Plata Canyon

OWNERSHIP:

SEC: 16 ,T: 18N ,R: 33E

North: 4364150 East: 388620

PRODUCTION: None reported

HISTORY: Discovered in 1939, reclaimed several times, no successful operation.

DEVELOPMENT: Several trenches, benches, and small prospect pits, one small adit.

GEOLOGY: The workings explore irregular contact zones adjacent to aplite sills and dikes. The dikes cut phyllite with subordinate amounts of limestone, dolomite and hornfels of Upper Triassic age. Fluorite rich zones occur near the dike contact; it occurs as small masses and veinlets and pale fluorite crystals fill open spaces. Most veinlets appear to be very small (about 1 inch), which would make the deposit difficult to mine economically. Sample 3952 was selected from dumps and contained visible clusters of pale colored fluorite. The sample contained 700 ppm arsenic, 30 ppm lead.

Muscovite associated with the fluorite-rich zones was dated by Bonham, 1981. The K-ar date of about 84 m.y. is believed to represent the age of fluorite mineralization.

REMARKS:

SAMPLE SITE: 3952

REFERENCES: Papke, 1979, NBMG Bull. 93; Bonham, 1981, Isochron West, No. 30.

EXAMINER: Jack Quade/Joe Tingley

DATE VISITED: 10-9-86

Attachment:

PROPERTY NAME: La Plata townsite

OTHER NAMES:

MINING DISTRICT: La Plata

COUNTY: Churchill

MINERAL COMMODITY(IES): silver, copper, lead

TYPE OF DEPOSIT: Vein, shear zone

QUAD SHEET: La Plata Canyon

OWNERSHIP:

SEC: 4 ,T: 16N ,R: 33E

North: 4367250 East: 387210

PRODUCTION: Unknown

HISTORY: Silver mineralization discovered in area in 1862, most activity ceased by 1869.

DEVELOPMENT: Two shafts, one now obliterated by dozer work, old mill site.

GEOLOGY: The workings in this area explored quartz veins in phyllite and slate near a granodiorite contact. Sample 3951 was taken from the site of the main shaft (now obliterated). Assays ran 700 ppm silver, 200 ppm arsenic, 1000 ppm bismuth, 5000 ppm copper, 1500 ppm molybdenum, 3000 ppm lead, 2000 ppm antimony, and 300 ppm zinc.

REMARKS:

SAMPLE SITE: 3951

REFERENCES:

EXAMINER: Jack Quade/Joe Tingley

DATE VISITED: 10-9-86

Attachment:

